

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
 YEAR 5 (APPLIED 94 DBP)
 Trial ID: GS-01-23 Study Dir.: NICK SHAY
 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	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC								-	101	208	310	402
2	SINBAR	80 WG		1.0 oz/a		PRE	A	0.7489 g/mx	1499.3 mL	102	201	307	409
3	SINBAR	80 WG		2.0 oz/a		PRE	A	1.498 g/mx	1498.5 mL	103	207	304	405
4	SINBAR	80 WG		3.0 oz/a		PRE	A	2.247 g/mx	1497.8 mL	104	206	308	406
5	SINBAR	80 WG		4.0 oz/a		PRE	A	2.996 g/mx	1497 mL	105	210	302	404
6	REFLEX	2 SL		2.0 oz/a		PRE	A	1.562 mL/mx	1498.4 mL	106	209	306	403
7	REFLEX	2 SL		4.0 oz/a		PRE	A	3.125 mL/mx	1496.9 mL	107	202	303	407
8	REFLEX	2 SL		8.0 oz/a		PRE	A	6.249 mL/mx	1493.8 mL	108	203	301	410
9	REFLEX	2 SL		12.0 oz/a		PRE	A	9.374 mL/mx	1490.6 mL	109	205	309	408
10	REFLEX	2 SL		16.0 oz/a		PRE	A	12.5 mL/mx	1487.5 mL	110	204	305	401

Sort Order: Replicate 1

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX

YEAR 5 (APPLIED 94 DBP)

Trial ID: GS-01-23 Study Dir.: NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

MAINTAINED WEED-FREE

AATREX 4L @ 32 OZ/A + DUAL MAGNUM 7.62EC @ 16 OZ/A - 03/23/23
LIBERTY @ 22 OZ/A + ROUNDUP P-MAX3 @ 22 OZ/A + AATREX @ 32 OZ/A - 05/04/23
ROUNDUP P-MAX3 @ 22 OZ/A + LIBERTY @ 22 OZ/A - 05/25/23
ROUNDUP P-MAX3 @ 32 OZ/A + LIBERTY @ 32 OZ/A + DUAL MAGNUM @ 16 OZ/A - 06/21/23
GRAMOXONE @ 48 OZ/A + AATREX @ 32 OZ/A + TASER @ 0.25% V/V - 06/26/23
AATREX @ 48 OZ/A + DUAL MAGNUM @ 16 OZ/A - 07/06/23
SIVANTO PRIME @ 10 OZ/A - 08/07/23
KARATE @ 4 OZ/A - 08/18/23
PRIAXOR @ 8 OZ/A - 09/05/23
KARATE @ 2 OZ/A - 09/08/23
ROUNDUP P-MAX3 @ 32 OZ/A - 10/18/23

1 TON/A LIME - PREPLANT
300 LBS/A 5-15-30 - PREPLANT
126-0-0-16 SIDEDRESS ON 07/19/23

HARVEST DATE: 10/25/23
HARVEST MOISTURE: 15.25%
YIELDS ADJUSTED TO 13% MOISTURE.
YIELDS ADJUSTED FOR BIRD DAMAGE (35% GRAIN LOSS/HEAD BASED UPON AVERAGE OF 15 HEADS)

LAST TILLAGE OCCURED ON 03/22/23

SUMMARY:

- 1) REFLEX @ 8,12, AND 16 OZ/A CAUSED SOME SLIGHT LEAF NECROSIS (1-8%).
- 2) REFLEX AT 16 OZ/A CAUSED SLIGHT VISUAL STUNTING (4%)
- 3) GENERALLY, SORGHUM STAND, BIOMASS, HEIGHT, AND YIELD WERE NOT REDUCED BY ANY RATE OF SINBAR OR REFLEX (P>0.12).

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
 YEAR 5 (APPLIED 94 DBP)
 Trial ID: GS-01-23 Study Dir.: NICK SHAY
 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-5-23
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: _____

Previous: Crops Pesticides Year
 1. PEANUT _____ 2022

MAINTENANCE

Field Prep/Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.93 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 3.7 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-3-23	0.83	IN	RAINFALL	_____	_____
2.	Apr-7-23	0.45	IN	SPRINKLER - LATERAL MOVE	_____	_____
3.	Apr-8-23	0.42	IN	RAINFALL	_____	_____
4.	Apr-14-23	0.11	IN	RAINFALL	_____	_____
5.	Apr-26-23	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
6.	Apr-27-23	1.0	IN	RAINFALL	_____	_____
7.	Apr-29-23	0.65	IN	RAINFALL	_____	_____
8.	May-11-23	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
9.	May-12-23	2.5	IN	RAINFALL	_____	_____
10.	May-20-23	0.1	IN	RAINFALL	_____	_____
11.	May-22-23	0.75	IN	RAINFALL	_____	_____
12.	May-23-23	0.3	IN	RAINFALL	_____	_____

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

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)			
Trial ID:	GS-01-23	Study Dir.:	NICK SHAY
Location:	PONDER FARM	Investigator:	Eric P. Prostko

		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	Apr-3-23	_____	_____	_____	_____	_____	_____
Time of Day:	7:05 AM	_____	_____	_____	_____	_____	_____
Application Method:	BROADCAST	_____	_____	_____	_____	_____	_____
Application Timing:	PRE	_____	_____	_____	_____	_____	_____
Applic. Placement:	SOIL	_____	_____	_____	_____	_____	_____
Air Temp., Unit:	58 F	_____	_____	_____	_____	_____	_____
% Relative Humidity:	84	_____	_____	_____	_____	_____	_____
Wind Velocity, Unit:	0 MPH	_____	_____	_____	_____	_____	_____
Dew Presence (Y/N):	N	_____	_____	_____	_____	_____	_____
Water Hardness:	_____	_____	_____	_____	_____	_____	_____
Soil Temp., Unit:	63 F	_____	_____	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	_____	_____	_____	_____	_____	_____
% Cloud Cover:	0	_____	_____	_____	_____	_____	_____

		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:	38	_____	_____	_____	_____	_____	_____
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
_____	_____

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)																		
Trial ID:		GS-01-23		Study Dir.:		NICK SHAY												
Location:		PONDER FARM		Investigator:		Eric P. Prostko												
Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Sorbi PLANT, - STAND #/5 FT Jul-14-23	Sorbi Necrosis % Jul-14-23	Sorbi Plant, - Stand #/5ft Jul-19-23	Sorbi Leaf, - Necrosis % Jul-19-23	Sorbi Biomass g/3ft Jul-19-23	Sorbi PLANT, - STAND #/5 FT Jul-28-23	Sorbi Hgt1 In Jul-28-23	Sorbi Hgt2 In Jul-28-23	Sorbi Hgt3 In Jul-28-23	Sorbi Hgt4 In Jul-28-23	Sorbi Hgt5 In Jul-28-23			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	1	2	3	4	5	6	7	8	9	10	11
1	NTC							27.8 -	0.0 -	28.3 -	0.0 c	22.93 -	26.5 bc	10.75 bc	10.88 -	11.38 -	11.25 -	11.00 -
2	SINBAR	80	WG	1.0 oz/a	PRE	A		26.3 -	0.0 -	25.8 -	0.0 c	20.98 -	23.8 d	11.63 ab	11.13 -	11.75 -	11.75 -	11.50 -
3	SINBAR	80	WG	2.0 oz/a	PRE	A		29.5 -	0.0 -	25.8 -	0.0 c	23.08 -	27.5 ab	12.38 a	11.75 -	11.88 -	11.25 -	11.25 -
4	SINBAR	80	WG	3.0 oz/a	PRE	A		27.3 -	0.0 -	26.8 -	0.0 c	24.75 -	27.5 ab	11.25 abc	10.63 -	10.75 -	11.00 -	11.88 -
5	SINBAR	80	WG	4.0 oz/a	PRE	A		27.8 -	0.0 -	26.0 -	0.0 c	22.28 -	28.8 a	11.63 ab	11.75 -	11.25 -	11.38 -	10.75 -
6	REFLEX	2	SL	2.0 oz/a	PRE	A		26.5 -	0.0 -	26.0 -	0.0 c	19.90 -	25.3 cd	11.50 ab	11.50 -	11.75 -	11.25 -	11.00 -
7	REFLEX	2	SL	4.0 oz/a	PRE	A		26.8 -	0.0 -	25.3 -	0.0 c	19.25 -	26.8 abc	11.00 bc	11.75 -	11.63 -	11.50 -	11.50 -
8	REFLEX	2	SL	8.0 oz/a	PRE	A		27.5 -	0.0 -	27.5 -	1.3 bc	24.08 -	28.8 a	11.00 bc	11.88 -	12.00 -	10.88 -	10.63 -
9	REFLEX	2	SL	12.0 oz/a	PRE	A		27.0 -	0.0 -	27.8 -	2.5 b	23.43 -	28.0 ab	10.00 c	10.38 -	10.88 -	11.38 -	11.88 -
10	REFLEX	2	SL	16.0 oz/a	PRE	A		28.3 -	1.3 -	28.3 -	7.5 a	19.70 -	26.8 abc	10.00 c	10.75 -	10.38 -	10.88 -	10.13 -
LSD P=.10					1.93	0.95	2.82	1.90	6.175	2.04	1.284	1.288	1.195	1.033	1.272			
Standard Deviation					1.60	0.79	2.34	1.57	5.127	1.70	1.066	1.069	0.992	0.857	1.056			
CV					5.84	632.46	8.75	139.89	23.27	6.3	9.59	9.51	8.73	7.62	9.47			
Grand Mean					27.45	0.13	26.73	1.13	22.035	26.95	11.113	11.238	11.363	11.250	11.150			

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.
 ^Calculated from residual.

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)												
Trial ID: GS-01-23 Study Dir.: NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko												
Crop Code	SORBI	SORBI	SORBI	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	SORBI	SORBI	SORBI	
Part Rated	PLANT, -	Stunting	Necrosis	Plant, -	Plant, -	Plant, -	Plant, -	Plant, -	PLANT, -	- Y	- Y	
Rating Data Type	HGT-AVG	%	%	Hgt1	Hgt2	Hgt3	Hgt4	Hgt5	HGT-AVG	YIELD	YIELD	
Rating Unit	IN			Inches	IN	IN	IN	IN	IN	LBS/PLOT	LBS/PLOT	
Rating Date	Jul-28-23	Aug-14-23	Aug-14-23	Sep-7-23	Sep-7-23	Sep-7-23	Sep-7-23	Sep-7-23	Sep-7-23	Oct-25-23	Oct-25-23	
Trt No.	Treatment	Form	Form	Rate	Grow	Appl						
	Name	Conc	Type	Rate	Unit	Stg	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						
LSD P=.10		0.77	2.11	2.04	2.95	3.46	3.63	3.37	3.71	2.24	1.165	1.57
Standard Deviation		0.64	1.75	1.69	2.45	2.87	3.01	2.80	3.08	1.86	0.967	1.31
CV		5.72	349.6	338.84	5.28	6.22	6.48	5.97	6.44	3.98	14.85	14.85
Grand Mean		11.22	0.50	0.50	46.45	46.18	46.50	46.93	47.83	46.78	6.510	8.79

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.
 ^Calculated from residual.

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)										
Trial ID:		GS-01-23		Study Dir.:		NICK SHAY				
Location:		PONDER FARM		Investigator:		Eric P. Prostko				
Crop Code				SORBI			SORBI			
Part Rated				-, Y			-, Y			
Rating Data Type				YIELD			YIELD			
Rating Unit				KG/HA			BU/A			
Rating Date				Oct-25-23			Oct-25-23			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	23	24	
1	NTC							2879 -	46 -	
2	SINBAR	80 WG		1.0 oz/a	PRE	A		2547 -	41 -	
3	SINBAR	80 WG		2.0 oz/a	PRE	A		3371 -	54 -	
4	SINBAR	80 WG		3.0 oz/a	PRE	A		2547 -	41 -	
5	SINBAR	80 WG		4.0 oz/a	PRE	A		2889 -	46 -	
6	REFLEX	2 SL		2.0 oz/a	PRE	A		2729 -	43 -	
7	REFLEX	2 SL		4.0 oz/a	PRE	A		2440 -	39 -	
8	REFLEX	2 SL		8.0 oz/a	PRE	A		2697 -	43 -	
9	REFLEX	2 SL		12.0 oz/a	PRE	A		3039 -	48 -	
10	REFLEX	2 SL		16.0 oz/a	PRE	A		2729 -	43 -	
LSD P=.10							498.5			7.9
Standard Deviation							413.9			6.6
CV							14.85			14.85
Grand Mean							2786.6			44.4

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.
 ^Calculated from residual.

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP) Trial ID: GS-01-23 Study Dir.: NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko					
Randomized Complete Block (RCB) AOV For Sorbi PLANT STAND #/5 FT Jul-14-23 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	109.900000			
Replicate	3	8.100000	2.700000	1.050	0.3864
Treatment	9	32.400000	3.600000	1.401	0.2367
Error	27	69.400000	2.570370		
Randomized Complete Block (RCB) AOV For Sorbi Necrosis % Jul-14-23 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	24.375000			
Replicate	3	1.875000	0.625000	1.000	0.4079
Treatment	9	5.625000	0.625000	1.000	0.4635
Error	27	16.875000	0.625000		
Randomized Complete Block (RCB) AOV For Sorbi Plant Stand #/5ft Jul-19-23 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	209.975000			
Replicate	3	16.475000	5.491667	1.003	0.4064
Treatment	9	45.725000	5.080556	0.928	0.5168
Error	27	147.775000	5.473148		
Randomized Complete Block (RCB) AOV For Sorbi Leaf Necrosis % Jul-19-23 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	274.375000			
Replicate	3	1.875000	0.625000	0.252	0.8590
Treatment	9	205.625000	22.847222	9.224	0.0001
Error	27	66.875000	2.476852		
Randomized Complete Block (RCB) AOV For Sorbi Biomass g/3ft Jul-19-23 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	1638.051000			
Replicate	3	791.171000	263.723667	10.033	0.0001
Treatment	9	137.146000	15.238444	0.580	0.8018
Error	27	709.734000	26.286444		
Randomized Complete Block (RCB) AOV For Sorbi PLANT STAND #/5 FT Jul-28-23 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	187.900000			
Replicate	3	23.700000	7.900000	2.742	0.0627
Treatment	9	86.400000	9.600000	3.332	0.0073
Error	27	77.800000	2.881481		
Randomized Complete Block (RCB) AOV For Sorbi Hgt1 In Jul-28-23 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	58.743750			
Replicate	3	8.368750	2.789583	2.454	0.0848
Treatment	9	19.681250	2.186806	1.924	0.0913
Error	27	30.693750	1.136806		
Randomized Complete Block (RCB) AOV For Sorbi Hgt2 In Jul-28-23 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	55.493750			
Replicate	3	13.568750	4.522917	3.956	0.0185
Treatment	9	11.056250	1.228472	1.075	0.4121
Error	27	30.868750	1.143287		
Randomized Complete Block (RCB) AOV For Sorbi Hgt3 In Jul-28-23 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	45.993750			
Replicate	3	8.868750	2.956250	3.004	0.0478
Treatment	9	10.556250	1.172917	1.192	0.3396
Error	27	26.568750	0.984028		
Randomized Complete Block (RCB) AOV For Sorbi Hgt4 In Jul-28-23 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	37.500000			
Replicate	3	14.900000	4.966667	6.756	0.0015
Treatment	9	2.750000	0.305556	0.416	0.9154
Error	27	19.850000	0.735185		

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)					
Trial ID:	GS-01-23	Study Dir.:	NICK SHAY		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For Sorbi Hgt5 In Jul-28-23 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	57.100000			
Replicate	3	15.650000	5.216667	4.679	0.0093
Treatment	9	11.350000	1.261111	1.131	0.3757
Error	27	30.100000	1.114815		
Randomized Complete Block (RCB) AOV For SORBI PLANT HGT-AVG IN Jul-28-23 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	27.329750			
Replicate	3	11.284750	3.761583	9.143	0.0002
Treatment	9	4.937250	0.548583	1.333	0.2663
Error	27	11.107750	0.411398		
Randomized Complete Block (RCB) AOV For SORBI Stunting % Aug-14-23 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	140.000000			
Replicate	3	5.000000	1.666667	0.545	0.6554
Treatment	9	52.500000	5.833333	1.909	0.0938
Error	27	82.500000	3.055556		
Randomized Complete Block (RCB) AOV For SORBI Necrosis % Aug-14-23 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	140.000000			
Replicate	3	10.000000	3.333333	1.161	0.3427
Treatment	9	52.500000	5.833333	2.032	0.0747
Error	27	77.500000	2.870370		
Randomized Complete Block (RCB) AOV For Sorbi Plant Hgt1 Inches Sep-7-23 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	489.900000			
Replicate	3	277.700000	92.566667	15.399	0.0001
Treatment	9	49.900000	5.544444	0.922	0.5214
Error	27	162.300000	6.011111		
Randomized Complete Block (RCB) AOV For Sorbi Plant Hgt2 IN Sep-7-23 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	625.775000			
Replicate	3	325.875000	108.625000	13.159	0.0001
Treatment	9	77.025000	8.558333	1.037	0.4376
Error	27	222.875000	8.254630		
Randomized Complete Block (RCB) AOV For Sorbi Plant Hgt3 IN Sep-7-23 (Data Column 17)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	754.000000			
Replicate	3	425.400000	141.800000	15.621	0.0001
Treatment	9	83.500000	9.277778	1.022	0.4479
Error	27	245.100000	9.077778		
Randomized Complete Block (RCB) AOV For Sorbi Plant Hgt4 IN Sep-7-23 (Data Column 18)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	672.775000			
Replicate	3	402.475000	134.158333	17.104	0.0001
Treatment	9	58.525000	6.502778	0.829	0.5956
Error	27	211.775000	7.843519		
Randomized Complete Block (RCB) AOV For Sorbi Plant Hgt5 IN Sep-7-23 (Data Column 19)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	635.775000			
Replicate	3	302.275000	100.758333	10.607	0.0001
Treatment	9	77.025000	8.558333	0.901	0.5380
Error	27	256.475000	9.499074		
Randomized Complete Block (RCB) AOV For SORBI PLANT HGT-AVG IN Sep-7-23 (Data Column 20)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	472.655000			
Replicate	3	336.651000	112.217000	32.315	0.0001
Treatment	9	42.245000	4.693889	1.352	0.2580
Error	27	93.759000	3.472556		

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)					
Trial ID:	GS-01-23	Study Dir.:	NICK SHAY		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For SORBI Y YIELD LBS/PLOT Oct-25-23 (Data Column 21)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	50.116000			
Replicate	3	10.154000	3.384667	3.620	0.0257
Treatment	9	14.716000	1.635111	1.749	0.1260
Error	27	25.246000	0.935037		
Randomized Complete Block (RCB) AOV For SORBI Y YIELD LBS/PLOT Oct-25-23 (Data Column 22)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	91.336410			
Replicate	3	18.505665	6.168555	3.620	0.0257
Treatment	9	26.819910	2.979990	1.749	0.1260
Error	27	46.010835	1.704105		
Randomized Complete Block (RCB) AOV For SORBI Y YIELD KG/HA Oct-25-23 (Data Column 23)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	9182706.377755			
Replicate	3	1860507.633485	620169.211162	3.620	0.0257
Treatment	9	2696398.496589	299599.832954	1.749	0.1260
Error	27	4625800.247681	171325.935099		
Randomized Complete Block (RCB) AOV For SORBI Y YIELD BU/A Oct-25-23 (Data Column 24)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	2330.783940			
Replicate	3	472.240006	157.413335	3.620	0.0257
Treatment	9	684.408501	76.045389	1.749	0.1260
Error	27	1174.135433	43.486498		
Part Rated PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) Leaf = LEAF / FOLIAGE PRM Data Type $T1 = ([C7]+[C8]+[C9]+[C10]+[C11])/5$ $T2 = ([C15]+[C16]+[C17]+[C18]+[C19])/5$ $T3 = [C21]*1.35$ $TY5 = 317.07600677*[C22]$ $TY6 = 5.05160099*[22]$					

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 5 (APPLIED 94 DBP)																			
Trial ID: GS-01-23 Study Dir.: NICK SHAY Location: PONDER FARM Investigator: Eric P. Prostko																			
Crop Code		Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi						
Part Rated		PLANT, -	Necrosis	Plant, -	Leaf, -	Biomass	PLANT, -	Hgt1	Hgt2	Hgt3	Hgt4	Hgt5							
Rating Data Type		STAND	%	Stand	%	g/3ft	STAND	In	In	In	In	In							
Rating Unit		#/5 FT		#/5ft			#/5 FT												
Rating Date		Jul-14-23	Jul-14-23	Jul-19-23	Jul-19-23	Jul-19-23	Jul-28-23	Jul-28-23	Jul-28-23	Jul-28-23	Jul-28-23	Jul-28-23	Jul-28-23						
Trt	Treatment Form Form	Rate	Grow	Appl															
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	7	8	9	10	11
1	NTC							101	27.0	0.0	29.0	0.0	16.70	27.0	9.00	9.00	11.00	11.00	10.50
								208	28.0	0.0	27.0	0.0	21.60	26.0	11.00	11.00	10.50	9.50	12.50
								310	30.0	0.0	30.0	0.0	23.90	25.0	11.00	11.00	12.50	12.00	10.00
								402	26.0	0.0	27.0	0.0	29.50	28.0	12.00	12.50	11.50	12.50	11.00
								Mean =	27.8	0.0	28.3	0.0	22.93	26.5	10.75	10.88	11.38	11.25	11.00
2	SINBAR	80	WG	1.0	oz/a	PRE	A	102	26.0	0.0	28.0	0.0	11.80	24.0	12.00	10.00	11.50	11.50	10.50
								201	23.0	0.0	23.0	0.0	15.60	25.0	12.00	12.50	12.00	11.00	11.50
								307	28.0	0.0	27.0	0.0	29.50	25.0	12.50	11.50	11.50	12.50	12.50
								409	28.0	0.0	25.0	0.0	27.00	21.0	10.00	10.50	12.00	12.00	11.50
								Mean =	26.3	0.0	25.8	0.0	20.98	23.8	11.63	11.13	11.75	11.75	11.50
3	SINBAR	80	WG	2.0	oz/a	PRE	A	103	30.0	0.0	25.0	0.0	22.10	30.0	12.00	12.00	11.00	9.00	10.50
								207	28.0	0.0	27.0	0.0	17.80	26.0	12.00	11.00	12.00	11.50	10.50
								304	29.0	0.0	26.0	0.0	24.00	29.0	12.50	12.50	13.00	11.50	12.00
								405	31.0	0.0	25.0	0.0	28.40	25.0	13.00	11.50	11.50	13.00	12.00
								Mean =	29.5	0.0	25.8	0.0	23.08	27.5	12.38	11.75	11.88	11.25	11.25
4	SINBAR	80	WG	3.0	oz/a	PRE	A	104	28.0	0.0	29.0	0.0	23.80	30.0	10.00	10.50	10.00	11.50	12.00
								206	27.0	0.0	26.0	0.0	17.10	25.0	11.50	9.00	10.00	10.00	10.00
								308	28.0	0.0	28.0	0.0	19.20	29.0	12.00	11.00	10.00	11.50	12.00
								406	26.0	0.0	24.0	0.0	38.90	26.0	11.50	12.00	13.00	11.00	13.50
								Mean =	27.3	0.0	26.8	0.0	24.75	27.5	11.25	10.63	10.75	11.00	11.88
5	SINBAR	80	WG	4.0	oz/a	PRE	A	105	28.0	0.0	30.0	0.0	21.70	30.0	11.00	12.50	11.00	11.00	9.50
								210	30.0	0.0	27.0	0.0	22.60	26.0	11.50	11.00	11.50	12.00	9.50
								302	28.0	0.0	25.0	0.0	20.80	30.0	11.50	10.50	10.00	11.50	11.50
								404	25.0	0.0	22.0	0.0	24.00	29.0	12.50	13.00	12.50	11.00	12.50
								Mean =	27.8	0.0	26.0	0.0	22.28	28.8	11.63	11.75	11.25	11.38	10.75
6	REFLEX	2	SL	2.0	oz/a	PRE	A	106	26.0	0.0	26.0	0.0	12.50	27.0	11.00	10.50	11.00	11.00	9.50
								209	26.0	0.0	26.0	0.0	19.50	22.0	11.50	11.00	12.00	10.50	10.50
								306	26.0	0.0	25.0	0.0	19.40	25.0	11.50	13.00	12.00	11.00	13.00
								403	28.0	0.0	27.0	0.0	28.20	27.0	12.00	11.50	12.00	12.50	11.00
								Mean =	26.5	0.0	26.0	0.0	19.90	25.3	11.50	11.50	11.75	11.25	11.00
7	REFLEX	2	SL	4.0	oz/a	PRE	A	107	28.0	0.0	23.0	0.0	16.60	26.0	10.00	11.00	10.50	10.00	11.50
								202	27.0	0.0	28.0	0.0	20.80	24.0	10.00	11.50	12.00	11.50	12.00
								303	25.0	0.0	24.0	0.0	10.10	28.0	11.50	11.50	11.00	12.00	11.00
								407	27.0	0.0	26.0	0.0	29.50	29.0	12.50	13.00	13.00	12.50	11.50
								Mean =	26.8	0.0	25.3	0.0	19.25	26.8	11.00	11.75	11.63	11.50	11.50
8	REFLEX	2	SL	8.0	oz/a	PRE	A	108	29.0	0.0	30.0	0.0	29.00	30.0	12.00	12.00	12.00	11.50	11.00
								203	25.0	0.0	24.0	0.0	17.10	29.0	9.00	12.00	12.00	9.50	9.50
								301	28.0	0.0	28.0	5.0	16.50	28.0	11.00	12.00	10.50	11.50	12.00
								410	28.0	0.0	28.0	0.0	33.70	28.0	12.00	11.50	13.50	11.00	10.00
								Mean =	27.5	0.0	27.5	1.3	24.08	28.8	11.00	11.88	12.00	10.88	10.63
9	REFLEX	2	SL	12.0	oz/a	PRE	A	109	30.0	0.0	27.0	5.0	30.50	28.0	8.50	8.00	9.50	9.50	10.00
								205	26.0	0.0	23.0	5.0	14.40	27.0	9.50	10.00	11.00	11.00	11.00
								309	27.0	0.0	28.0	0.0	17.90	29.0	9.50	11.50	10.50	12.00	13.00
								408	25.0	0.0	33.0	0.0	30.90	28.0	12.50	12.00	12.50	13.00	13.50
								Mean =	27.0	0.0	27.8	2.5	23.43	28.0	10.00	10.38	10.88	11.38	11.88
10	REFLEX	2	SL	16.0	oz/a	PRE	A	110	28.0	0.0	28.0	10.0	20.10	27.0	12.00	10.50	10.50	11.00	10.50
								204	28.0	0.0	27.0	5.0	18.30	28.0	8.50	8.50	9.00	9.50	8.00
								305	28.0	0.0	30.0	5.0	14.10	25.0	9.50	11.50	12.50	11.50	11.00
								401	29.0	5.0	28.0	10.0	26.30	27.0	10.00	12.50	9.50	11.50	11.00
								Mean =	28.3	1.3	28.3	7.5	19.70	26.8	10.00	10.75	10.38	10.88	10.13

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
 YEAR 5 (APPLIED 94 DBP)
 Trial ID: GS-01-23 Study Dir.: NICK SHAY
 Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code	SORBI PLANT, - HGT-AVG IN		SORBI Stunting %	SORBI Necrosis %	Sorbi Plant, - Hgt1 Inches	Sorbi Plant, - Hgt2 IN	Sorbi Plant, - Hgt3 IN	Sorbi Plant, - Hgt4 IN	Sorbi Plant, - Hgt5 IN	SORBI PLANT, - HGT-AVG IN	SORBI - YIELD LBS/PLOT								
Part Rated	Jul-28-23		Aug-14-23	Aug-14-23	Sep-7-23	Sep-7-23	Sep-7-23	Sep-7-23	Sep-7-23	Sep-7-23	Oct-25-23								
Rating Data Type	Rating Unit	Rating Date	Trt	Treatment	Form	Form	Rate	Grow	Appl										
	No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	12	13	14	15	16	17	18	19	20	21
1	NTC																		
									101	10.1	0.0	0.0	44.0	45.0	36.0	46.0	41.0	42.4	6.40
									208	10.9	0.0	0.0	47.0	42.0	43.0	44.0	46.0	44.4	7.70
									310	11.3	0.0	0.0	47.0	45.0	52.0	46.0	51.0	48.2	6.70
									402	11.9	0.0	0.0	50.0	48.0	52.0	47.0	46.0	48.6	6.10
									Mean =	11.1	0.0	0.0	47.0	45.0	45.8	45.8	46.0	45.9	6.73
2	SINBAR	80 WG	1.0 oz/a	PRE	A				102	11.1	5.0	0.0	43.0	45.0	45.0	45.0	48.0	45.2	6.30
									201	11.8	0.0	0.0	42.0	38.0	39.0	40.0	40.0	39.8	5.60
									307	12.1	0.0	0.0	52.0	51.0	51.0	48.0	47.0	49.8	6.20
									409	11.2	0.0	0.0	50.0	52.0	48.0	54.0	52.0	51.2	5.70
									Mean =	11.6	1.3	0.0	46.8	46.5	45.8	46.8	46.8	46.5	5.95
3	SINBAR	80 WG	2.0 oz/a	PRE	A				103	10.9	0.0	0.0	44.0	45.0	50.0	47.0	51.0	47.4	9.40
									207	11.4	0.0	0.0	45.0	46.0	46.0	43.0	46.0	45.2	6.60
									304	12.3	0.0	0.0	51.0	50.0	47.0	47.0	45.0	48.0	7.80
									405	12.2	0.0	0.0	52.0	49.0	50.0	54.0	56.0	52.2	7.70
									Mean =	11.7	0.0	0.0	48.0	47.5	48.3	47.8	49.5	48.2	7.88
4	SINBAR	80 WG	3.0 oz/a	PRE	A				104	10.8	0.0	0.0	43.0	46.0	44.0	52.0	54.0	47.8	6.40
									206	10.1	0.0	0.0	43.0	41.0	39.0	41.0	44.0	41.6	4.90
									308	11.3	0.0	0.0	49.0	46.0	48.0	52.0	50.0	49.0	7.10
									406	12.2	0.0	0.0	50.0	54.0	51.0	49.0	52.0	51.2	5.40
									Mean =	11.1	0.0	0.0	46.3	46.8	45.5	48.5	50.0	47.4	5.95
5	SINBAR	80 WG	4.0 oz/a	PRE	A				105	11.0	0.0	0.0	48.0	46.0	48.0	44.0	48.0	46.8	7.40
									210	11.1	0.0	0.0	44.0	43.0	42.0	47.0	46.0	44.4	5.60
									302	11.0	0.0	0.0	47.0	47.0	49.0	48.0	49.0	48.0	6.80
									404	12.3	0.0	0.0	49.0	55.0	54.0	50.0	52.0	52.0	7.20
									Mean =	11.4	0.0	0.0	47.0	47.8	48.3	47.3	48.8	47.8	6.75
6	REFLEX	2 SL	2.0 oz/a	PRE	A				106	10.6	0.0	0.0	41.0	39.0	43.0	44.0	42.0	41.8	6.10
									209	11.1	0.0	0.0	46.0	46.0	47.0	43.0	48.0	46.0	7.60
									306	12.1	0.0	0.0	49.0	48.0	53.0	48.0	52.0	50.0	5.70
									403	11.8	0.0	0.0	50.0	45.0	53.0	52.0	52.0	50.4	6.10
									Mean =	11.4	0.0	0.0	46.5	44.5	49.0	46.8	48.5	47.1	6.38
7	REFLEX	2 SL	4.0 oz/a	PRE	A				107	10.6	0.0	0.0	46.0	43.0	45.0	43.0	45.0	44.4	5.50
									202	11.4	0.0	0.0	44.0	47.0	44.0	47.0	44.0	45.2	5.10
									303	11.4	0.0	0.0	46.0	46.0	47.0	49.0	48.0	47.2	7.80
									407	12.5	0.0	0.0	55.0	53.0	52.0	53.0	54.0	53.4	4.40
									Mean =	11.5	0.0	0.0	47.8	47.3	47.0	48.0	47.8	47.6	5.70
8	REFLEX	2 SL	8.0 oz/a	PRE	A				108	11.7	0.0	0.0	46.0	41.0	40.0	44.0	44.0	43.0	7.90
									203	10.4	0.0	0.0	42.0	45.0	46.0	45.0	43.0	44.2	6.90
									301	11.4	0.0	0.0	46.0	45.0	48.0	46.0	48.0	46.6	5.20
									410	11.6	0.0	0.0	50.0	48.0	47.0	57.0	52.0	50.8	5.20
									Mean =	11.3	0.0	0.0	46.0	44.8	45.3	48.0	46.8	46.2	6.30
9	REFLEX	2 SL	12.0 oz/a	PRE	A				109	9.1	0.0	5.0	43.0	45.0	42.0	44.0	43.0	43.4	9.40
									205	10.5	0.0	0.0	39.0	43.0	42.0	42.0	45.0	42.2	6.40
									309	11.3	0.0	0.0	48.0	53.0	52.0	49.0	51.0	50.6	7.30
									408	12.7	0.0	0.0	51.0	50.0	47.0	50.0	55.0	50.6	5.30
									Mean =	10.9	0.0	1.3	45.3	47.8	45.8	46.3	48.5	46.7	7.10
10	REFLEX	2 SL	16.0 oz/a	PRE	A				110	10.9	0.0	5.0	44.0	39.0	41.0	38.0	43.0	41.0	7.10
									204	8.7	10.0	10.0	45.0	44.0	43.0	43.0	46.0	44.2	6.00
									305	11.2	0.0	0.0	43.0	46.0	47.0	45.0	46.0	45.4	6.90
									401	10.9	5.0	0.0	44.0	47.0	47.0	51.0	48.0	47.4	5.50
									Mean =	10.4	3.8	3.8	44.0	44.0	44.5	44.3	45.8	44.5	6.38

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
 YEAR 5 (APPLIED 94 DBP)
 Trial ID: GS-01-23 Study Dir.: NICK SHAY
 Location: PONDER FARM Investigator: Eric P. Prostko

Crop Code		SORBI	SORBI	SORBI					
Part Rated		- Y	- Y	- Y					
Rating Data Type		YIELD	YIELD	YIELD					
Rating Unit		LBS/PLOT	KG/HA	BU/A					
Rating Date		Oct-25-23	Oct-25-23	Oct-25-23					
Trt No.	Treatment Name	Form Conc	Rate Unit	Grow Stg	Appl Code	Plot	22	23	24
1	NTC					101	8.6	2740	44
						208	10.4	3296	53
						310	9.0	2868	46
						402	8.2	2611	42
						Mean =	9.1	2879	46
2	SINBAR	80 WG	1.0 oz/a	PRE	A	102	8.5	2697	43
						201	7.6	2397	38
						307	8.4	2654	42
						409	7.7	2440	39
						Mean =	8.0	2547	41
3	SINBAR	80 WG	2.0 oz/a	PRE	A	103	12.7	4024	64
						207	8.9	2825	45
						304	10.5	3339	53
						405	10.4	3296	53
						Mean =	10.6	3371	54
4	SINBAR	80 WG	3.0 oz/a	PRE	A	104	8.6	2740	44
						206	6.6	2097	33
						308	9.6	3039	48
						406	7.3	2311	37
						Mean =	8.0	2547	41
5	SINBAR	80 WG	4.0 oz/a	PRE	A	105	10.0	3168	50
						210	7.6	2397	38
						302	9.2	2911	46
						404	9.7	3082	49
						Mean =	9.1	2889	46
6	REFLEX	2 SL	2.0 oz/a	PRE	A	106	8.2	2611	42
						209	10.3	3253	52
						306	7.7	2440	39
						403	8.2	2611	42
						Mean =	8.6	2729	43
7	REFLEX	2 SL	4.0 oz/a	PRE	A	107	7.4	2354	38
						202	6.9	2183	35
						303	10.5	3339	53
						407	5.9	1883	30
						Mean =	7.7	2440	39
8	REFLEX	2 SL	8.0 oz/a	PRE	A	108	10.7	3382	54
						203	9.3	2954	47
						301	7.0	2226	35
						410	7.0	2226	35
						Mean =	8.5	2697	43
9	REFLEX	2 SL	12.0 oz/a	PRE	A	109	12.7	4024	64
						205	8.6	2740	44
						309	9.9	3125	50
						408	7.2	2269	36
						Mean =	9.6	3039	48
10	REFLEX	2 SL	16.0 oz/a	PRE	A	110	9.6	3039	48
						204	8.1	2568	41
						305	9.3	2954	47
						401	7.4	2354	38
						Mean =	8.6	2729	43

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
YEAR 5 (APPLIED 94 DBP)

Trial ID: GS-01-23 Study Dir.: NICK SHAY
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

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

Leaf = LEAF / FOLIAGE

PRM Data Type

T1 = $([C7]+[C8]+[C9]+[C10]+[C11])/5$

T2 = $([C15]+[C16]+[C17]+[C18]+[C19])/5$

T3 = $[C21]*1.35$

TY5 = $317.07600677*[C22]$

TY6 = $5.05160099*[22]$