

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX

YEAR 4 (APPLIED 94 DBP)

Trial ID: GS-02-22 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	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

AATREX 4L @ 32 OZ/A + DUAL MAGNUM 7.62EC @ 16 OZ/A - 04/04/22

LIBERTY @ 22 OZ/A + ROUNDUP P-MAX3 @ 22 OZ/A + AATREX @ 32 OZ/A - 04/26/22

ROUNDUP P-MAX @ 48 OZ/A - 05/03/22

ROUNDUP P-MAX3 @ 22 OZ/A + LIBERTY @ 32 OZ/A - 06/02/22

ROUNDUP P-MAX3 @ 22 OZ/A + LIBERTY @ 32 OZ/A - 06/20/22

ROUNDUP P-MAX3 @ 64 OZ/A + AATREX @ 16 OZ/A + DUAL MAGNUM @ 16 OZ/A - 06/27/22

AATREX @ 48 OZ/A + DUAL MAGNUM @ 16 OZ/A - 07/12/22

SIVANTO @ 10 OZ/A + PRIAXOR @ 8 OZ/A - 09/07/22

PRIAXOR @ 8 OZ/A - 09/20/22

HARVEST DATE: NOVEMBER 4, 2022

HARVEST MOISTURE: 24%

YIELDS ADJUSTED TO 13% MOISTURE.

LAST TILLAGE ON 03/28/22

SUMMARY:

1) REFLEX @12 OR 16 OZ/A, APPLIED 94 DBP, CAUSED TYPICAL SORGHUM INJURY (STUNTING, LEAF NECROSIS/RED STREAKING).

2) SINBAR OR REFLEX, APPLIED 94 DBP, HAD NO EFFECT ON SORGHUM STAND/DENSITY, BIOMASS, HEIGHT, OR YIELD (P>0.60).

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX

YEAR 4 (APPLIED 94 DBP)

Trial ID: GS-02-22 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-6-22

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: RACOB

Trial Initiation Comments: 1.5 TONS/A LIME PREPLANT; 600 LBS/A 5-15-30

03/28/22; 131-0-0-16 SIDEDRESS 08/02/22;

Previous: Crops

Pesticides

Year

1. PEANUT

2021

MAINTENANCE

Field Prep./Maintenance: _____

Form

Form

Form

Rate

No. Date

Treatment Name

Conc

Unit

Type

Rate

Unit

1. _____

SOIL DESCRIPTION

Texture: SAND

% OM: 0.8

% Sand: 94

% Silt: 4

% Clay: 2

pH: 6.0

CEC: 2.8

Soil Name: TIFTON

Fertility Level:

GOOD

MOISTURE CONDITIONS

On: Date

Time

Amount Unit

Type

Interval Unit

1. Apr-5-22

1.36

IN

RAINFALL

2. Apr-6-22

0.43

IN

RAINFALL

3. Apr-17-22

IN

4. Apr-18-22

5. Apr-27-22

6. May-6-22

7. May-24-22

8. Aug-2-22

9. _____

Overall Moisture Conditions: _____

Closest Weather Station: _____

Distance: _____

Unit: _____

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX

YEAR 4 (APPLIED 94 DBP)

Trial ID: GS-02-22 Study Dir.: NICK SHAY
 Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-4-22					
Time of Day:	7:36 AM					
Application Method:	BROADCAST					
Application Timing:	PRE					
Applic. Placement:	SOIL					
Air Temp., Unit:	49 F					
% Relative Humidity:	84					
Wind Velocity, Unit:	0 MPH					
Dew Presence (Y/N):						
Water Hardness:	--					
Soil Temp., Unit:	56 F					
Soil Moisture:	WET					
% 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:	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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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX									
YEAR 4 (APPLIED 94 DBP)									
Trial ID:		GS-02-22		Study Dir.:		NICK SHAY			
Location:		PONDER FARM		Investigator:		Eric P. Prostko			
Weed Code									
Crop Code									
Part Rated									
Rating Data Type									
Rating Unit									
Rating Date									
		Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi
		Plant, -	Leaf, -	Stand, -	Fresh, -	Leaf, -	Plant, -	Plant, -	Plant, -
		Stand	Necrosis	Plants	Weight	Necrosis	Density	Ht1	Ht2
		# /3ft	%	# /3ft	g/3ft	%	#/3ft	In	In
		Jul-13-22	Jul-13-22	Jul-20-22	Jul-20-22	Jul-20-22	Jul-27-22	Jul-27-22	Jul-27-22
Trt	Treatment Form	Rate	Grow	Appl					
No.	Name	Conc	Rate	Unit	Stg	Code			
1	NTC								
2	SINBAR	80	1.0 oz/a	PRE	A				
3	SINBAR	80	2.0 oz/a	PRE	A				
4	SINBAR	80	3.0 oz/a	PRE	A				
5	SINBAR	80	4.0 oz/a	PRE	A				
6	REFLEX	2	2.0 oz/a	PRE	A				
7	REFLEX	2	4.0 oz/a	PRE	A				
8	REFLEX	2	8.0 oz/a	PRE	A				
9	REFLEX	2	12.0 oz/a	PRE	A				
10	REFLEX	2	16.0 oz/a	PRE	A				
11	NTC								
LSD P=.10		1.85	1.48	1.99	2.535	3.96	1.50	1.122	1.115
Standard Deviation		1.54	1.23	1.66	2.113	3.30	1.25	0.935	0.929
CV		9.6	270.8	10.1	26.76	193.77	7.62	15.92	16.58
Grand Mean		16.07	0.45	16.41	7.893	1.70	16.45	5.875	5.602
Bartlett's X2^		6.673	46.783*	11.625	7.721	35.959*	3.982	13.201	9.204
P(Bartlett's X2)		0.756	0.00*	0.311	0.656	0.00*	0.948	0.213	0.513
Shapiro-Wilk^		0.9657	0.8273*	0.974	0.9739	0.8727*	0.9491	0.953	0.9711
P(Shapiro-Wilk)^		0.2116	0.0*	0.4154	0.4107	0.0002*	0.0509	0.071	0.3318

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=21,22,23,24

^Calculated from residual.

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX													
YEAR 4 (APPLIED 94 DBP)													
Trial ID:		GS-02-22		Study Dir.:		NICK SHAY							
Location:		PONDER FARM		Investigator:		Eric P. Prostko							
Weed Code				Sorbi		Sorbi		Sorbi		Sorbi		Sorbi	
Crop Code				Plant, -		Plant, -		Plant, -		Plant, -		Plant, -	
Part Rated				Ht3		Ht4		Ht5		HGT-AVG		Ht1	
Rating Data Type				In		In		In		In		In	
Rating Unit				In		In		In		In		In	
Rating Date				Jul-27-22		Jul-27-22		Jul-27-22		Jul-27-22		Jul-27-22	
				Aug-15-22		Aug-15-22		Aug-15-22		Aug-15-22		Aug-15-22	
				Sep-6-22		Sep-6-22		Sep-6-22		Sep-6-22		Sep-6-22	
				Stunting		Necrosis		Stunting		Necrosis		Stunting	
				%		%		%		%		%	
Trt				9		10		11		12		13	
Treatment Form				14		15		16		17		18	
No. Name				Conc		Rate		Unit		Stg		Code	
1 NTC				5.13 c		6.00 a		5.38 a		5.6 a		0.0 c	
2 SINBAR 80				1.0 oz/a		PRE		A		5.00 c		5.88 a	
3 SINBAR 80				2.0 oz/a		PRE		A		5.13 c		5.13 a	
4 SINBAR 80				3.0 oz/a		PRE		A		4.88 a		5.5 a	
5 SINBAR 80				4.0 oz/a		PRE		A		5.5 a		5.0 ab	
6 REFLEX 2				2.0 oz/a		PRE		A		0.0 c		0.0 c	
7 REFLEX 2				4.0 oz/a		PRE		A		37.75 a		36.13 a	
8 REFLEX 2				8.0 oz/a		PRE		A		0.0 c		0.0 c	
9 REFLEX 2				12.0 oz/a		PRE		A		33.88 a		37.25 a	
10 REFLEX 2				16.0 oz/a		PRE		A		35.50 a		35.00 a	
11 NTC				6.75 a		5.50 a		5.38 a		6.1 a		0.0 c	
LSD P=.10				0.927		0.983		1.044		0.80		4.36	
Standard Deviation				0.772		0.819		0.870		0.67		3.63	
CV				14.07		14.36		15.32		11.77		159.75	
Grand Mean				5.489		5.705		5.682		5.67		2.27	
Bartlett's X2^				10.364		6.473		16.004		7.328		21.454*	
P(Bartlett's X2)				0.409		0.774		0.10		0.694		0.018*	
Shapiro-Wilk^				0.9894		0.9712		0.9535		0.9827		0.961	
P(Shapiro-Wilk)^				0.9542		0.3324		0.0744		0.7408		0.1413	

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Trial ID:		GS-02-22		Study Dir.:		NICK SHAY								
Location:		PONDER FARM		Investigator:		Eric P. Prostko								
Weed Code						Sorbi	Sorbi	Sorbi	Sorbi	SORBI	SORBI	SORBI	SORBI	
Crop Code						Plant, -	Plant, -	Plant, -	Plant, -	YIELD, -	PLOT, -	PLOT, -	PLOT, -	
Part Rated						Ht3	Ht4	Ht5	HGT-AVG	DIRTY	CLEAN	YIELD	YIELD	
Rating Data Type						In	In	In	In	LBS/PLOT	LBS/PLOT	BU/A	KG/HA	
Rating Unit						Sep-6-22	Sep-6-22	Sep-6-22	Sep-6-22	Nov-4-22	Nov-4-22	Nov-4-22	Nov-4-22	
Rating Date														
Trt	Treatment Form	Rate	Grow	Appl		17	18	19	20	21	22	23	24	
No.	Name	Conc	Rate	Unit	Stg	Code								
1	NTC						35.25 a	35.50 a	36.50 a	36.2 a	19.8 a	19.4 a	87.8 a	5510.4 a
2	SINBAR	80	1.0 oz/a	PRE	A		36.25 a	36.13 a	35.25 a	35.8 a	19.4 a	19.0 a	86.0 a	5398.9 a
3	SINBAR	80	2.0 oz/a	PRE	A		34.13 a	35.88 a	34.88 a	35.1 a	17.6 a	17.2 a	78.0 a	4897.3 a
4	SINBAR	80	3.0 oz/a	PRE	A		34.63 a	34.75 a	36.25 a	35.5 a	19.0 a	18.6 a	84.2 a	5287.4 a
5	SINBAR	80	4.0 oz/a	PRE	A		33.75 a	34.88 a	35.88 a	34.9 a	19.0 a	18.6 a	84.3 a	5294.4 a
6	REFLEX	2	2.0 oz/a	PRE	A		37.38 a	34.38 a	36.13 a	36.1 a	23.1 a	22.7 a	102.7 a	6446.2 a
7	REFLEX	2	4.0 oz/a	PRE	A		34.00 a	36.63 a	35.38 a	35.4 a	19.7 a	19.3 a	87.6 a	5496.4 a
8	REFLEX	2	8.0 oz/a	PRE	A		35.25 a	35.13 a	35.63 a	35.1 a	22.4 a	21.9 a	99.3 a	6234.9 a
9	REFLEX	2	12.0 oz/a	PRE	A		36.13 a	37.00 a	36.25 a	36.1 a	21.3 a	20.9 a	94.6 a	5935.3 a
10	REFLEX	2	16.0 oz/a	PRE	A		35.25 a	36.13 a	36.00 a	35.9 a	23.1 a	22.6 a	102.4 a	6429.9 a
11	NTC						33.75 a	35.00 a	34.50 a	34.7 a	21.9 a	21.5 a	97.2 a	6102.5 a
LSD P=.10							3.283	3.641	3.421	2.88	5.13	5.02	22.76	1428.79
Standard Deviation							2.735	3.034	2.851	2.40	4.27	4.18	18.95	1189.21
CV							7.8	8.53	7.99	6.75	20.75	20.75	20.75	20.75
Grand Mean							35.068	35.580	35.693	35.52	20.56	20.15	91.29	5730.33
Bartlett's X2^							6.573	9.768	10.699	6.286	5.704	5.704	5.704	5.704
P(Bartlett's X2)							0.765	0.461	0.381	0.791	0.84	0.84	0.84	0.84
Shapiro-Wilk^							0.9848	0.9804	0.9795	0.992	0.9239*	0.9239*	0.9239*	0.9239*
P(Shapiro-Wilk)^							0.8222	0.65	0.6136	0.9886	0.0073*	0.0073*	0.0073*	0.0073*

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Missing data estimates are included in columns: Average=21,22,23,24

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YEAR 4 (APPLIED 94 DBP)					
Trial ID:	GS-02-22	Study Dir.:	NICK SHAY		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For Sorbi Plant Stand # /3ft Jul-13-22 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	90.795455			
Replicate	3	4.431818	1.477273	0.621	0.6067
Treatment	10	15.045455	1.504545	0.633	0.7741
Error	30	71.318182	2.377273		
Randomized Complete Block (RCB) AOV For Sorbi Leaf Necrosis % Jul-13-22 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	90.909091			
Replicate	3	4.545455	1.515152	1.000	0.4064
Treatment	10	40.909091	4.090909	2.700	0.0172
Error	30	45.454545	1.515152		
Randomized Complete Block (RCB) AOV For Sorbi Stand Plants # /3ft Jul-20-22 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	118.636364			
Replicate	3	13.545455	4.515152	1.643	0.2004
Treatment	10	22.636364	2.263636	0.824	0.6094
Error	30	82.454545	2.748485		
Randomized Complete Block (RCB) AOV For Sorbi Fresh Weight g/3ft Jul-20-22 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	155.387955			
Replicate	3	8.958864	2.986288	0.669	0.5776
Treatment	10	12.545455	1.254545	0.281	0.9807
Error	30	133.883636	4.462788		
Randomized Complete Block (RCB) AOV For Sorbi Leaf Necrosis % Jul-20-22 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	747.159091			
Replicate	3	28.977273	9.659091	0.885	0.4598
Treatment	10	390.909091	39.090909	3.583	0.0032
Error	30	327.272727	10.909091		
Randomized Complete Block (RCB) AOV For Sorbi Plant Density #/3ft Jul-27-22 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	82.909091			
Replicate	3	2.363636	0.787879	0.501	0.6841
Treatment	10	33.409091	3.340909	2.126	0.0540
Error	30	47.136364	1.571212		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht1 In Jul-27-22 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	44.062500			
Replicate	3	9.835227	3.278409	3.750	0.0212
Treatment	10	8.000000	0.800000	0.915	0.5324
Error	30	26.227273	0.874242		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht2 In Jul-27-22 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	51.789773			
Replicate	3	19.789773	6.596591	7.642	0.0006
Treatment	10	6.102273	0.610227	0.707	0.7108
Error	30	25.897727	0.863258		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht3 In Jul-27-22 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	51.244318			
Replicate	3	21.289773	7.096591	11.895	0.0001
Treatment	10	12.056818	1.205682	2.021	0.0667
Error	30	17.897727	0.596591		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht4 In Jul-27-22 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	48.659091			
Replicate	3	20.250000	6.750000	10.062	0.0001
Treatment	10	8.284091	0.828409	1.235	0.3098
Error	30	20.125000	0.670833		

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YEAR 4 (APPLIED 94 DBP)					
Trial ID:	GS-02-22	Study Dir.:	NICK SHAY		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht5 In Jul-27-22 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	43.045455			
Replicate	3	13.909091	4.636364	6.123	0.0022
Treatment	10	6.420455	0.642045	0.848	0.5885
Error	30	22.715909	0.757197		
Randomized Complete Block (RCB) AOV For Sorbi Plant HGT-AVG In Jul-27-22 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	32.771591			
Replicate	3	16.009773	5.336591	11.985	0.0001
Treatment	10	3.404091	0.340409	0.765	0.6606
Error	30	13.357727	0.445258		
Randomized Complete Block (RCB) AOV For Sorbi Stunting % Aug-15-22 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	772.727273			
Replicate	3	104.545455	34.848485	2.644	0.0673
Treatment	10	272.727273	27.272727	2.069	0.0606
Error	30	395.454545	13.181818		
Randomized Complete Block (RCB) AOV For Sorbi Necrosis % Aug-15-22 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	1574.431818			
Replicate	3	42.613636	14.204545	1.307	0.2905
Treatment	10	1205.681818	120.568182	11.091	0.0001
Error	30	326.136364	10.871212		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht1 In Sep-6-22 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	441.045455			
Replicate	3	122.409091	40.803030	4.549	0.0096
Treatment	10	49.545455	4.954545	0.552	0.8385
Error	30	269.090909	8.969697		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht2 In Sep-6-22 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	547.971591			
Replicate	3	212.244318	70.748106	6.876	0.0012
Treatment	10	27.034091	2.703409	0.263	0.9849
Error	30	308.693182	10.289773		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht3 In Sep-6-22 (Data Column 17)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	473.295455			
Replicate	3	194.295455	64.765152	8.656	0.0003
Treatment	10	54.545455	5.454545	0.729	0.6916
Error	30	224.454545	7.481818		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht4 In Sep-6-22 (Data Column 18)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	485.971591			
Replicate	3	181.971591	60.657197	6.591	0.0015
Treatment	10	27.909091	2.790909	0.303	0.9746
Error	30	276.090909	9.203030		
Randomized Complete Block (RCB) AOV For Sorbi Plant Ht5 In Sep-6-22 (Data Column 19)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	441.107955			
Replicate	3	181.426136	60.475379	7.443	0.0007
Treatment	10	15.920455	1.592045	0.196	0.9951
Error	30	243.761364	8.125379		
Randomized Complete Block (RCB) AOV For Sorbi Plant HGT-AVG In Sep-6-22 (Data Column 20)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	355.451591			
Replicate	3	171.727955	57.242652	9.951	0.0001
Treatment	10	11.149091	1.114909	0.194	0.9953
Error	30	172.574545	5.752485		

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX					
YEAR 4 (APPLIED 94 DBP)					
Trial ID:	GS-02-22	Study Dir.:	NICK SHAY		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For ----- SORBI YIELD DIRTY LBS/PLOT Nov-4-22 (Data Column 21)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	42	853.311995			
Replicate	3	184.490985	61.496995	3.376	0.0316
Treatment	10	140.632828	14.063283	0.772	0.6539
Error	29	528.188182	18.213386		
Randomized Complete Block (RCB) AOV For ----- SORBI PLOT CLEAN LBS/PLOT Nov-4-22 (Data Column 22)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	42	819.520840			
Replicate	3	177.185142	59.061714	3.376	0.0316
Treatment	10	135.063768	13.506377	0.772	0.6539
Error	29	507.271930	17.492136		
Randomized Complete Block (RCB) AOV For ----- SORBI PLOT YIELD BU/A Nov-4-22 (Data Column 23)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	42	16817.670955			
Replicate	3	3636.077655	1212.025885	3.376	0.0316
Treatment	10	2771.690361	277.169036	0.772	0.6539
Error	29	10409.902939	358.962170		
Randomized Complete Block (RCB) AOV For ----- SORBI PLOT YIELD KG/HA Nov-4-22 (Data Column 24)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	42	66257421.832610			
Replicate	3	14325237.521293	4775079.173764	3.376	0.0316
Treatment	10	10919767.543640	1091976.754364	0.772	0.6539
Error	29	41012416.767677	1414221.267851		
<u>Part Rated</u>					
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)					
Leaf = LEAF / FOLIAGE					
PRM Data Type					
T1 = ([C7]+[C8]+[C9]+[C10]+[C11])/5					
T2 = ([15]+[16]+[17]+[18]+[19])/5					
T3 = [21]*0.98					
TY4 = 4.53004926*[22]					
TY5 = 284.33954589*[22]					

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX														
YEAR 4 (APPLIED 94 DBP)														
Trial ID:		GS-02-22		Study Dir.:		NICK SHAY								
Location:		PONDER FARM		Investigator:		Eric P. Prostko								
Weed Code							Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi		
Crop Code							Plant, -	Leaf, -	Stand, -	Fresh, -	Leaf, -	Plant, -	Sorbi	
Part Rated							Stand	Necrosis	Plants	Weight	Necrosis	Density	Plant, -	
Rating Data Type							# /3ft	%	# /3ft	g/3ft	%	#/3ft	Ht1	
Rating Unit							Jul-13-22	Jul-13-22	Jul-20-22	Jul-20-22	Jul-20-22	Jul-27-22	In	
Rating Date							Jul-13-22	Jul-13-22	Jul-20-22	Jul-20-22	Jul-20-22	Jul-27-22	Jul-27-22	
Trt	Treatment	Form	Rate	Grow	Appl									
No.	Name	Conc	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	7
1	NTC						101	16.0	0.0	18.0	8.20	0.0	16.0	5.50
							206	15.0	0.0	17.0	6.80	0.0	18.0	5.00
							310	17.0	0.0	18.0	9.70	0.0	15.0	8.00
							411	16.0	0.0	17.0	9.70	0.0	17.0	6.50
							Mean =	16.0	0.0	17.5	8.60	0.0	16.5	6.25
2	SINBAR	80	1.0 oz/a	PRE	A		102	17.0	0.0	19.0	7.30	0.0	15.0	5.00
							203	17.0	0.0	17.0	6.20	0.0	15.0	5.50
							306	14.0	0.0	16.0	7.40	5.0	14.0	6.50
							404	16.0	0.0	17.0	10.80	0.0	17.0	6.50
							Mean =	16.0	0.0	17.3	7.93	1.3	15.3	5.88
3	SINBAR	80	2.0 oz/a	PRE	A		103	15.0	0.0	14.0	5.90	0.0	16.0	5.50
							207	16.0	0.0	15.0	5.90	0.0	16.0	5.00
							309	16.0	0.0	17.0	8.10	0.0	18.0	6.00
							406	16.0	0.0	17.0	10.40	0.0	18.0	8.50
							Mean =	15.8	0.0	15.8	7.58	0.0	17.0	6.25
4	SINBAR	80	3.0 oz/a	PRE	A		104	15.0	0.0	16.0	6.10	0.0	19.0	5.00
							209	16.0	0.0	17.0	8.50	0.0	18.0	6.50
							307	18.0	0.0	15.0	8.40	0.0	18.0	6.50
							402	16.0	0.0	16.0	9.10	0.0	17.0	6.00
							Mean =	16.3	0.0	16.0	8.03	0.0	18.0	6.00
5	SINBAR	80	4.0 oz/a	PRE	A		105	18.0	0.0	14.0	4.00	0.0	17.0	5.50
							211	17.0	0.0	16.0	7.90	5.0	16.0	5.50
							302	15.0	0.0	18.0	9.60	0.0	14.0	6.50
							407	18.0	0.0	15.0	5.80	0.0	15.0	6.00
							Mean =	17.0	0.0	15.8	6.83	1.3	15.5	5.88
6	REFLEX	2	2.0 oz/a	PRE	A		106	17.0	0.0	16.0	7.90	0.0	16.0	4.50
							204	14.0	0.0	16.0	7.10	0.0	15.0	6.00
							303	18.0	0.0	15.0	7.20	0.0	19.0	5.50
							401	16.0	0.0	18.0	10.10	0.0	16.0	7.50
							Mean =	16.3	0.0	16.3	8.08	0.0	16.5	5.88
7	REFLEX	2	4.0 oz/a	PRE	A		107	18.0	0.0	15.0	6.20	0.0	17.0	5.00
							205	16.0	0.0	19.0	6.80	0.0	18.0	5.00
							304	16.0	0.0	16.0	7.40	0.0	17.0	5.50
							408	18.0	0.0	17.0	11.20	0.0	20.0	5.00
							Mean =	17.0	0.0	16.8	7.90	0.0	18.0	5.13
8	REFLEX	2	8.0 oz/a	PRE	A		108	15.0	0.0	15.0	8.70	0.0	15.0	5.00
							202	17.0	0.0	18.0	6.10	0.0	17.0	4.50
							301	17.0	0.0	18.0	12.40	5.0	16.0	6.50
							410	15.0	0.0	14.0	6.50	0.0	15.0	7.00
							Mean =	16.0	0.0	16.3	8.43	1.3	15.8	5.75
9	REFLEX	2	12.0 oz/a	PRE	A		109	18.0	5.0	18.0	7.80	5.0	17.0	4.50
							201	17.0	0.0	20.0	9.60	5.0	17.0	7.50
							305	15.0	0.0	14.0	6.10	0.0	15.0	5.00
							403	14.0	5.0	13.0	4.50	10.0	15.0	6.50
							Mean =	16.0	2.5	16.3	7.00	5.0	16.0	5.88
10	REFLEX	2	16.0 oz/a	PRE	A		110	14.0	0.0	15.0	8.80	5.0	16.0	6.00
							208	15.0	0.0	18.0	9.20	0.0	15.0	4.50
							311	16.0	5.0	13.0	5.60	15.0	17.0	5.00
							405	18.0	5.0	15.0	8.90	20.0	18.0	5.00
							Mean =	15.8	2.5	15.3	8.13	10.0	16.5	5.13
11	NTC						111	17.0	0.0	18.0	12.10	0.0	16.0	7.00
							210	11.0	0.0	18.0	7.20	0.0	16.0	5.50
							308	15.0	0.0	17.0	7.40	0.0	15.0	8.00
							409	16.0	0.0	17.0	6.70	0.0	17.0	6.00
							Mean =	14.8	0.0	17.5	8.35	0.0	16.0	6.63

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX														
YEAR 4 (APPLIED 94 DBP)														
Trial ID:		GS-02-22		Study Dir.:		NICK SHAY								
Location:		PONDER FARM		Investigator:		Eric P. Prostko								
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Sorbi Plant, - Ht2 In Jul-27-22	Sorbi Plant, - Ht3 In Jul-27-22	Sorbi Plant, - Ht4 In Jul-27-22	Sorbi Plant, - Ht5 In Jul-27-22	Sorbi Plant, - HGT-AVG In Jul-27-22	Sorbi Stunting % Aug-15-22	Sorbi Necrosis % Aug-15-22	
Trt	Treatment Form	Rate	Grow	Appl			8	9	10	11	12	13	14	
No.	Name	Conc	Rate	Unit	Stg	Code	Plot							
1	NTC					101		5.00	5.00	5.50	5.00	5.2	0.0	0.0
						206	4.50	4.00	4.50	4.50	4.5	0.0	0.0	
						310	7.00	5.50	6.50	5.50	6.5	0.0	0.0	
						411	5.00	6.00	7.50	6.50	6.3	0.0	0.0	
						Mean =	5.38	5.13	6.00	5.38	5.6	0.0	0.0	
2	SINBAR	80	1.0 oz/a	PRE	A	102		4.00	3.50	4.00	5.00	4.3	0.0	0.0
						203	5.00	4.00	6.50	6.00	5.4	0.0	0.0	
						306	6.00	6.00	5.50	5.50	5.9	0.0	0.0	
						404	6.00	6.50	7.50	6.50	6.6	0.0	0.0	
						Mean =	5.25	5.00	5.88	5.75	5.6	0.0	0.0	
3	SINBAR	80	2.0 oz/a	PRE	A	103		5.50	4.50	4.00	4.50	4.8	0.0	0.0
						207	4.50	4.50	4.50	4.50	4.6	10.0	0.0	
						309	6.50	5.00	5.00	5.00	5.5	10.0	0.0	
						406	7.50	6.50	7.00	5.50	7.0	0.0	0.0	
						Mean =	6.00	5.13	5.13	4.88	5.5	5.0	0.0	
4	SINBAR	80	3.0 oz/a	PRE	A	104		4.50	5.50	5.00	5.00	5.0	5.0	0.0
						209	5.50	5.00	5.50	6.00	5.7	0.0	0.0	
						307	7.50	7.00	7.00	6.50	6.9	0.0	0.0	
						402	7.00	7.00	6.50	7.00	6.7	0.0	0.0	
						Mean =	6.13	6.13	6.00	6.13	6.1	1.3	0.0	
5	SINBAR	80	4.0 oz/a	PRE	A	105		5.00	5.00	4.50	4.50	4.9	5.0	0.0
						211	5.50	5.00	5.00	5.00	5.2	0.0	0.0	
						302	6.00	5.00	6.00	5.50	5.8	0.0	0.0	
						407	7.00	7.00	8.00	8.50	7.3	0.0	0.0	
						Mean =	5.88	5.50	5.88	5.88	5.8	1.3	0.0	
6	REFLEX	2	2.0 oz/a	PRE	A	106		4.00	5.00	6.00	5.50	5.0	0.0	0.0
						204	5.00	5.00	5.00	4.50	5.1	0.0	0.0	
						303	6.00	5.50	7.50	8.00	6.5	0.0	0.0	
						401	6.50	7.50	7.00	6.50	7.0	0.0	0.0	
						Mean =	5.38	5.75	6.38	6.13	5.9	0.0	0.0	
7	REFLEX	2	4.0 oz/a	PRE	A	107		5.00	4.50	5.00	6.00	5.1	5.0	0.0
						205	5.50	5.50	5.50	6.00	5.5	0.0	0.0	
						304	6.00	6.00	5.00	4.50	5.4	0.0	0.0	
						408	4.50	4.50	5.00	6.00	5.0	0.0	0.0	
						Mean =	5.25	5.13	5.13	5.63	5.3	1.3	0.0	
8	REFLEX	2	8.0 oz/a	PRE	A	108		5.00	4.00	6.00	5.50	5.1	10.0	0.0
						202	3.00	3.50	5.00	4.50	4.1	5.0	5.0	
						301	6.50	6.00	7.00	7.00	6.6	0.0	0.0	
						410	6.00	7.50	7.00	6.50	6.8	0.0	0.0	
						Mean =	5.13	5.25	6.25	5.88	5.7	3.8	1.3	
9	REFLEX	2	12.0 oz/a	PRE	A	109		3.50	4.50	4.00	4.50	4.2	15.0	15.0
						201	5.50	5.50	6.00	6.50	6.2	0.0	0.0	
						305	5.00	5.50	6.00	6.00	5.5	0.0	0.0	
						403	8.00	7.00	6.00	7.50	7.0	5.0	15.0	
						Mean =	5.50	5.63	5.50	6.13	5.7	5.0	7.5	
10	REFLEX	2	16.0 oz/a	PRE	A	110		5.50	4.50	4.50	5.00	5.1	10.0	15.0
						208	5.00	5.50	5.00	5.50	5.1	15.0	20.0	
						311	6.00	4.50	5.50	5.00	5.2	5.0	10.0	
						405	5.50	5.50	5.50	6.00	5.5	0.0	25.0	
						Mean =	5.50	5.00	5.13	5.38	5.2	7.5	17.5	
11	NTC					111		7.50	7.50	5.50	6.50	6.8	0.0	0.0
						210	5.00	6.00	4.50	4.00	5.0	0.0	0.0	
						308	6.50	6.50	7.00	5.50	6.7	0.0	0.0	
						409	6.00	7.00	5.00	5.50	5.9	0.0	0.0	
						Mean =	6.25	6.75	5.50	5.38	6.1	0.0	0.0	

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX													
YEAR 4 (APPLIED 94 DBP)													
Trial ID:		GS-02-22		Study Dir.:		NICK SHAY							
Location:		PONDER FARM		Investigator:		Eric P. Prostko							
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Sorbi Plant, - Ht1 In Sep-6-22	Sorbi Plant, - Ht2 In Sep-6-22	Sorbi Plant, - Ht3 In Sep-6-22	Sorbi Plant, - Ht4 In Sep-6-22	Sorbi Plant, - Ht5 In Sep-6-22	Sorbi Plant, - HGT-AVG In Sep-6-22	SORBI YIELD, - DIRTY LBS/PLOT Nov-4-22
Trt	Treatment	Form	Rate	Grow	Appl		15	16	17	18	19	20	21
1	NTC					101	39.00	34.00	36.50	39.00	38.00	37.3	18.0
						206	37.00	38.00	34.00	33.00	36.00	35.6	10.0
						310	32.00	32.00	32.50	31.50	32.00	32.0	26.1
						411	43.00	40.50	38.00	38.50	40.00	40.0	25.0
						Mean =	37.75	36.13	35.25	35.50	36.50	36.2	19.8
2	SINBAR	80	1.0 oz/a	PRE	A	102	34.50	36.00	31.50	33.00	33.00	33.6	19.7
						203	33.00	37.00	36.00	34.50	33.00	34.7	21.4
						306	36.00	42.00	38.50	38.00	37.00	38.3	16.6
						404	32.00	34.00	39.00	39.00	38.00	36.4	19.8
						Mean =	33.88	37.25	36.25	36.13	35.25	35.8	19.4
3	SINBAR	80	2.0 oz/a	PRE	A	103	31.00	30.50	31.00	35.00	34.00	32.3	19.6
						207	38.00	35.00	34.00	32.00	33.00	34.4	12.5
						309	31.00	33.50	32.00	34.00	33.00	32.7	19.7
						406	42.00	41.00	39.50	42.50	39.50	40.9	18.5
						Mean =	35.50	35.00	34.13	35.88	34.88	35.1	17.6
4	SINBAR	80	3.0 oz/a	PRE	A	104	31.00	36.00	31.00	31.00	33.50	32.5	19.4
						209	33.00	33.00	32.50	31.00	35.00	32.9	18.2
						307	38.00	38.00	39.00	39.00	39.50	38.7	13.1
						402	34.50	43.00	36.00	38.00	37.00	37.7	25.2
						Mean =	34.13	37.50	34.63	34.75	36.25	35.5	19.0
5	SINBAR	80	4.0 oz/a	PRE	A	105	31.00	33.00	29.00	31.00	34.00	31.6	15.4
						211	33.00	34.00	31.00	34.50	33.50	33.2	20.7
						302	34.50	33.00	34.00	34.00	33.00	33.7	24.2
						407	40.00	42.00	41.00	40.00	43.00	41.2	15.7
						Mean =	34.63	35.50	33.75	34.88	35.88	34.9	19.0
6	REFLEX	2	2.0 oz/a	PRE	A	106	33.00	35.00	29.50	28.00	29.00	30.9	17.6
						204	37.00	33.50	38.00	33.00	33.00	34.9	.
						303	35.00	38.00	38.50	36.00	40.00	37.5	26.1
						401	38.00	41.00	43.50	40.50	42.50	41.1	25.7
						Mean =	35.75	36.88	37.38	34.38	36.13	36.1	23.1
7	REFLEX	2	4.0 oz/a	PRE	A	107	33.50	31.50	32.00	35.00	33.50	33.1	10.6
						205	38.00	37.00	35.00	37.00	39.00	37.2	22.4
						304	36.00	36.00	36.00	36.00	34.00	35.6	20.5
						408	34.00	38.00	33.00	38.50	35.00	35.7	25.4
						Mean =	35.38	35.63	34.00	36.63	35.38	35.4	19.7
8	REFLEX	2	8.0 oz/a	PRE	A	108	34.50	33.00	34.00	32.50	31.50	33.1	14.3
						202	31.50	31.00	33.50	31.50	33.00	32.1	23.7
						301	36.00	43.00	40.00	43.00	40.00	40.4	25.9
						410	34.50	34.50	33.50	33.50	38.00	34.8	25.6
						Mean =	34.13	35.38	35.25	35.13	35.63	35.1	22.4
9	REFLEX	2	12.0 oz/a	PRE	A	109	30.50	33.50	34.00	34.50	32.50	33.0	15.7
						201	32.00	39.00	37.50	38.50	36.00	36.6	18.5
						305	36.00	32.00	36.00	37.50	39.50	36.2	26.9
						403	41.00	40.50	37.00	37.50	37.00	38.6	24.1
						Mean =	34.88	36.25	36.13	37.00	36.25	36.1	21.3
10	REFLEX	2	16.0 oz/a	PRE	A	110	32.00	34.00	33.50	37.00	37.50	34.8	22.6
						208	34.50	32.00	31.00	31.50	33.00	32.4	20.3
						311	38.00	37.00	38.50	39.00	35.50	37.6	25.9
						405	40.00	41.00	38.00	37.00	38.00	38.8	23.5
						Mean =	36.13	36.00	35.25	36.13	36.00	35.9	23.1
11	NTC					111	35.00	33.00	32.00	35.00	32.50	33.5	22.7
						210	31.50	32.00	32.00	32.00	31.50	31.8	22.8
						308	37.00	39.00	36.00	37.00	36.00	37.0	23.8
						409	36.00	37.50	35.00	36.00	38.00	36.5	18.3
						Mean =	34.88	35.38	33.75	35.00	34.50	34.7	21.9

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX										
YEAR 4 (APPLIED 94 DBP)										
Trial ID:		GS-02-22		Study Dir.:		NICK SHAY				
Location:		PONDER FARM		Investigator:		Eric P. Prostko				
Weed Code							-----	-----	-----	
Crop Code							SORBI	SORBI	SORBI	
Part Rated							PLOT, -	PLOT, -	PLOT, -	
Rating Data Type							CLEAN	YIELD	YIELD	
Rating Unit							LBS/PLOT	BU/A	KG/HA	
Rating Date							Nov-4-22	Nov-4-22	Nov-4-22	
Trt	Treatment	Form	Rate	Grow	Appl					
No.	Name	Conc	Rate	Unit	Stg	Code	Plot	22	23	24
1	NTC					101		17.6	79.9	5015.8
						206		9.8	44.4	2786.5
						310		25.6	115.9	7272.8
						411		24.5	111.0	6966.3
						Mean =		19.4	87.8	5510.4
2	SINBAR	80	1.0 oz/a	PRE	A	102		19.3	87.5	5489.5
						203		21.0	95.0	5963.2
						306		16.3	73.7	4625.6
						404		19.4	87.9	5517.3
						Mean =		19.0	86.0	5398.9
3	SINBAR	80	2.0 oz/a	PRE	A	103		19.2	87.0	5461.6
						207		12.3	55.5	3483.2
						309		19.3	87.5	5489.5
						406		18.1	82.1	5155.1
						Mean =		17.2	78.0	4897.3
4	SINBAR	80	3.0 oz/a	PRE	A	104		19.0	86.1	5405.9
						209		17.8	80.8	5071.5
						307		12.8	58.2	3650.4
						402		24.7	111.9	7022.1
						Mean =		18.6	84.2	5287.4
5	SINBAR	80	4.0 oz/a	PRE	A	105		15.1	68.4	4291.3
						211		20.3	91.9	5768.1
						302		23.7	107.4	6743.4
						407		15.4	69.7	4374.8
						Mean =		18.6	84.3	5294.4
6	REFLEX	2	2.0 oz/a	PRE	A	106		17.2	78.1	4904.3
						204		.	.	.
						303		25.6	115.9	7272.8
						401		25.2	114.1	7161.4
						Mean =		22.7	102.7	6446.2
7	REFLEX	2	4.0 oz/a	PRE	A	107		10.4	47.1	2953.7
						205		22.0	99.4	6241.8
						304		20.1	91.0	5712.4
						408		24.9	112.8	7077.8
						Mean =		19.3	87.6	5496.4
8	REFLEX	2	8.0 oz/a	PRE	A	108		14.0	63.5	3984.7
						202		23.2	105.2	6604.1
						301		25.4	115.0	7217.1
						410		25.1	113.6	7133.5
						Mean =		21.9	99.3	6234.9
9	REFLEX	2	12.0 oz/a	PRE	A	109		15.4	69.7	4374.8
						201		18.1	82.1	5155.1
						305		26.4	119.4	7495.8
						403		23.6	107.0	6715.5
						Mean =		20.9	94.6	5935.3
10	REFLEX	2	16.0 oz/a	PRE	A	110		22.1	100.3	6297.6
						208		19.9	90.1	5656.7
						311		25.4	115.0	7217.1
						405		23.0	104.3	6548.3
						Mean =		22.6	102.4	6429.9
11	NTC					111		22.2	100.8	6325.4
						210		22.3	101.2	6353.3
						308		23.3	105.7	6631.9
						409		17.9	81.2	5099.3
						Mean =		21.5	97.2	6102.5

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX

YEAR 4 (APPLIED 94 DBP)

Trial ID: GS-02-22 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 $T1 = ([C7] + [C8] + [C9] + [C10] + [C11]) / 5$ $T2 = ([15] + [16] + [17] + [18] + [19]) / 5$ $T3 = [21] * 0.98$ $TY4 = 4.53004926 * [22]$ $TY5 = 284.33954589 * [22]$