

University of Georgia

WEED CONTROL IN ENLIST SOYBEANS WITH DIFFERENT GPA AND NOZZLES TYPES			
Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG	
Location: PONDER FARM		Investigator: Eric P. Prostko	

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 10 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=.5214 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC							-	101	212	304	402
2	10 GPA XR110015 NOZZLES LIBERTY AMS	2.34	SL	32.0 oz/a 2.5 % v/v	POST A POST A		37.5 mL/mx 37.5 mL/mx	- - 1425 mL	102	208	311	409
3	10 GPA AIXR110015 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		37.5 mL/mx 37.5 mL/mx 37.5 mL/mx	- - 1387.5 mL	103	206	305	404
4	10 GPA TTI110015 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		37.5 mL/mx 37.5 mL/mx 37.5 mL/mx	- - 1387.5 mL	104	203	306	407
5	15 GPA XR11002 NOZZLES LIBERTY AMS	2.34	SL	32.0 oz/a 2.5 % v/v	POST A POST A		37.5 mL/mx 37.5 mL/mx	- - 1425 mL	105	204	312	403
6	15 GPA AIXR11002 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		37.5 mL/mx 37.5 mL/mx 37.5 mL/mx	- - 1387.5 mL	106	209	303	408
7	15 GPA TTI11002 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		37.5 mL/mx 37.5 mL/mx 37.5 mL/mx	- - 1387.5 mL	107	201	302	412
8	20 GPA XR110025 NOZZLES LIBERTY AMS	2.34	SL	32.0 oz/a 2.5 % v/v	POST A POST A		37.5 mL/mx 37.5 mL/mx	- - 1425 mL	108	205	309	406
9	20 GPA AIXR110025 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		37.5 mL/mx 37.5 mL/mx 37.5 mL/mx	- - 1387.5 mL	109	211	307	411
10	20 GPA TTI110025 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		37.5 mL/mx 37.5 mL/mx 37.5 mL/mx	- - 1387.5 mL	110	202	308	405
11	15 GPA AIXR11002 NOZZLES REFLEX CLASSIC INDUCE	2 25	SL DG	24.0 oz/a 0.50 oz/a 0.25 % v/v	POST A POST A POST A		28.12 mL/mx 0.5617 g/mx 3.75 mL/mx	- - 1467.6 mL	111	210	301	410
12	15 GPA AIXR11002 NOZZLES LIBERTY EVERPREX	2.34 7.64	SL EC	32.0 oz/a 16.0 oz/a	POST A POST A		37.5 mL/mx 18.75 mL/mx	- - 1443.8 mL	112	207	310	401

Sort Order: Treatment

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WEED CONTROL IN ENLIST SOYBEANS WITH

DIFFERENT GPA AND NOZZLES TYPES

Trial ID: SB-02B-22 Study Dir.: JOHN RICHBURG

Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

RATES WERE ADJUSTED ACCORDING TO GPA

SPRAY PRESSURES:

10 GPA = 25 PSI

15 GPA = 35 PSI

20 GPA = 39 PSI

POST APPLICATION:

AMAPA: 5-15 LF; 3-6" TALL; 40/FT²

NO CROP INJURY RATING OBTAINED ON MAY 31. NTC COVERED UP WITH WEEDS SO

SUMMARY:

- 1) AT 7 DAT, LIBERTY + AMS AT 10, 15 OR 20 GPA CAUSED 8-10% LEAF CHLOROSIS (XR TIPS).
- 2) AT 7 DAT, ENLIST ONE + LIBERTY + AMS CAUSED SIGNIFICANT LEAF NECROSIS (15-18%) WITH ALL GPA'S (10, 15, 20) AND SPRAY TIPS (AIXR, TTI). NO DIFFERENCES. THE MOST LEAF NECROSIS OBSERVED AT THIS TIME WAS FROM REFLEX + CLASSIC + INDUCE (20%).
- 3) NO CHLOROSIS OR NECROSIS WAS OBSERVED FROM ANY TREATMENT AT 14 DAYS OR LATER AFTER APPLICATION.
- 4) AT 7 DAT, PALMER AMARANTH (PA) CONTROL WAS GREATER THAN 93% WITH ALL TREATMENTS EXCEPT REFLEX + CLASSIC + INDUCE (80%).
- 5) AT 14/21/29 DAT, PA CONTROL WITH LIBERTY + AMS WAS SIMILAR BETWEEN 10, 15, AND 20 GPA.
- 6) AT 14 AND 29 DAT, PA CONTROL WITH ENLIST ONE + LIBERTY + AMS AT 10 GPA WAS BETTER WITH THE AIXR NOZZLES IN COMPARISON TO TTI NOZZLES. NO DIFFERENCES IN PA CONTROL WITH ENLIST ONE + LIBERTY AT 15 VS. 20 GPA OR AIXR VS. TTI TIPS.

FINAL THOUGHTS

- 1) WHEN APPLYING ENLIST ONE + LIBERTY IN 10 GPA, NEED AIXR TIPS. WHEN APPLYING IN 15 OR 20 GPA, TIP NOT AS CRITICAL.
- 2) REALLY NEED A RESIDUAL IN THE MIX I.E. ENLIST ONE + LIBERTY + GROUP 15 FOR BEST PA CONTROL.

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WEED CONTROL IN ENLIST SOYBEANS WITH

DIFFERENT GPA AND NOZZLES TYPES

Trial ID: SB-02B-22 Study Dir.: JOHN RICHBURG

Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JOHN RICHBURG

Title: _____

Affiliation: _____

Postal Code: _____

Investigator: Eric P. Prostko

Title: _____

Affiliation: _____

Postal Code: _____

TRIAL LOCATION

City: _____

State/Prov.: _____

Postal Code: _____

Country: _____

E-Longitude of LL Corner °: -83.658461

Altitude of LL Corner: 86.10 Unit: m

Directions: _____

Trial Status: E

Trial Reliability: _____

Initiation Date: _____

Planned Completion Date: _____

N-Latitude of LL Corner °: 31.5070786

Angle y-axis to North °: _____

COOPERATOR/LANDOWNER

Cooperator: _____

Org: _____

Address 1: _____

Address 2: _____

City: _____

State/Prov.: _____

Postal Code: _____

Country: _____

Phone No: _____

Fax No: _____

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Guidelines: _____ Guideline Description: _____

Objective: _____

Conclusions: _____

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	PA	LMER AMARANTH

Crop 1: GLYMA SOYBEAN

Variety: PIONEER P53T90E

Planting Date: Apr-13-22

Planting Method: MONOSEM

Rate: 116160 SEED/A

Depth: 1.5 IN

Perennial Age: _____

Row Spacing: 36 IN

Spacing Within Row: _____

Seed Bed: _____

Soil Temperature: _____

Soil Moisture: OPTIMUM

Emergence Date: _____

SITE AND DESIGN

Plot Width, Unit: 6 FT

Plot Length, Unit: 25 FT Reps: 4

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: RACOB

Trial Initiation Comments: _____

	Previous Crops	Previous Pesticides	Year
1.	SOYBEAN/FALLOW		2021

MAINTENANCE

Field Prep./Maintenance: 1.5 TONS/A LIME

300 LBS/A 5-15-30: PREPLANT

GPS:

LL = 31.507079/-83.658461

UL = 31.506395/-83.658679

UR = 31.506419/-83.658782

LR = 31.507084/-83.658563

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Trial ID: SB-02B-22

Study Dir.: JOHN RICHBURG

Location: PONDER FARM Investigator: Eric P. Prostko

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

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

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-12-22		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	Apr-14-22		0.3	IN	SPRINKLER - LATERAL MOVE		
3.	Apr-17-22		0.16	IN	RAINFALL		
4.	Apr-18-22		0.53	IN	RAINFALL		
5.	Apr-27-22		0.75	IN	SPRINKLER - LATERAL MOVE		
6.	May-3-22		0.65	IN	SPRINKLER - LATERAL MOVE		
7.	May-5-22		0.6	IN	SPRINKLER - LATERAL MOVE		
8.	May-6-22		0.45	IN	RAINFALL		
9.	May-12-22		0.4	IN	SPRINKLER - LATERAL MOVE		
10.	May-23-22		0.5	IN	SPRINKLER - LATERAL MOVE		
11.	May-24-22		1.8	IN	RAINFALL		

Overall Moisture Conditions:

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A
Application Date:	May-2-22
Time of Day:	8:15 AM
Application Method:	BROADCAST
Application Timing:	POST
Applic. Placement:	FOLIAGE
Air Temp., Unit:	67 F
% Relative Humidity:	94
Wind Velocity, Unit:	1 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	70 F
Soil Moisture:	DRY
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GLYMA,
Stage Scale:	V1
Height, Unit:	3.5, IN

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Trial ID: SB-02B-22

Study Dir.: JOHN RICHBURG

Location: PONDER FARM Investigator: Eric P. Prostko

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAPA,
Stage Scale:	3-6';5-15
Density, Unit:	40 FT2

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	25/35/39
Nozzle Type:	MANY
Nozzle Size:	MANY
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	60 IN
Boom Height, Unit:	20 IN
Ground Speed, Unit:	3.5 MPH
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	WATER
Spray Volume, Unit:	10 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	

Trt No	Treatment Application Comment

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Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code					-----	-----	Amapa	-----	Amapa	-----		
Crop Code					Glyma	Glyma		Glyma		Glyma		
Part Rated												
Rating Data Type					Chlorosis	Necrosis	Control	Necrosis	Control	Necrosis		
Rating Unit					%	%	%	%	%	%		
Rating Date					May-9-22	May-9-22	May-9-22	May-16-22	May-16-22	May-23-22		
Trt-Eval Interval					7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	21 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	NTC						0.0 c	0.0 d	0.0 c	0.0 a	0.0 g	0.0 a
2	10 GPA XR110015 NOZZLES LIBERTY AMS	2.34	SL	32.0 oz/a 2.5 % v/v	POST A POST A		7.5 b	2.5 d	93.8 a	0.0 a	85.0 cd	0.0 a
3	10 GPA AIXR110015 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		0.0 c	17.5 ab	95.0 a	0.0 a	92.5 abc	0.0 a
4	10 GPA TTI110015 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		0.0 c	17.5 ab	93.8 a	0.0 a	75.0 ef	0.0 a
5	15 GPA XR11002 NOZZLES LIBERTY AMS	2.34	SL	32.0 oz/a 2.5 % v/v	POST A POST A		10.0 a	0.0 d	93.8 a	0.0 a	86.3 bcd	0.0 a
6	15 GPA AIXR11002 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		0.0 c	15.0 b	95.0 a	0.0 a	97.0 a	0.0 a
7	15 GPA TTI11002 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		0.0 c	16.3 b	95.0 a	0.0 a	92.5 abc	0.0 a
8	20 GPA XR110025 NOZZLES LIBERTY AMS	2.34	SL	32.0 oz/a 2.5 % v/v	POST A POST A		10.0 a	0.0 d	95.0 a	0.0 a	86.3 bcd	0.0 a
9	20 GPA AIXR110025 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		0.0 c	15.0 b	95.0 a	0.0 a	97.0 a	0.0 a
10	20 GPA TTI110025 NOZZLES ENLIST ONE LIBERTY AMS	3.8 2.34	SL SL	32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		0.0 c	17.5 ab	95.0 a	0.0 a	93.8 ab	0.0 a
11	15 GPA AIXR11002 NOZZLES REFLEX CLASSIC INDUCE	2 25	SL DG	24.0 oz/a 0.50 oz/a 0.25 % v/v	POST A POST A POST A		0.0 c	20.0 a	80.0 b	0.0 a	70.0 f	0.0 a

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.

Could not calculate LSD (% mean diff) for columns 4,6 because error mean square = 0.

^Calculated from residual.

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WEED CONTROL IN ENLIST SOYBEANS WITH DIFFERENT GPA AND NOZZLES TYPES										
Trial ID: SB-02B-22			Study Dir.: JOHN RICHBURG							
Location: PONDER FARM			Investigator: Eric P. Prostko							
Weed Code	-----		-----		Amapa		-----		Amapa	
Crop Code	Glyma		Glyma		-----		Glyma		-----	
Part Rated										
Rating Data Type	Chlorosis		Necrosis		Control		Necrosis		Control	
Rating Unit	%		%		%		%		%	
Rating Date	May-9-22		May-9-22		May-9-22		May-16-22		May-16-22	
Trt-Eval Interval	7 DA-A		7 DA-A		7 DA-A		14 DA-A		14 DA-A	
Trt Treatment	Form Form		Rate		Grow		Appl			
No. Name	Conc Type		Rate Unit		Stg		Code			
12	15 GPA				1		2		3	
	AIXR11002 NOZZLES				0.0 c		10.0 c		93.8 a	
	LIBERTY		2.34 SL		32.0 oz/a		POST A		0.0 a	
	EVERPREX		7.64 EC		16.0 oz/a		POST A		81.3 de	
LSD P=.10					1.73		3.07		2.79	
Standard Deviation					1.44		2.57		2.33	
CV					62.98		23.46		2.73	
Grand Mean					2.29		10.94		85.42	
Bartlett's X2^					64.208		69.67		26.15	
P(Bartlett's X2)					0.00*		0.00*		0.006*	
							.		7.78	
							0.00		6.50	
							0.0		8.16	
							0.00		79.71	
							.		28.696	
							.		0.003*	

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Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code					Amapa		Amapa		
Crop Code					-----		-----		
Part Rated					Control		Control		
Rating Data Type					%		%		
Rating Unit					May-23-22		May-31-22		
Rating Date					21 DA-A		29 DA-A		
Trt-Eval Interval									
Trt	Treatment	Form	Form	Rate	Grow	Appl	7		8
No.	Name	Conc	Type	Rate Unit	Stg	Code			
1	NTC						0.0 f		0.0 f
2	10 GPA XR110015 NOZZLES LIBERTY AMS	2.34 SL		32.0 oz/a 2.5 % v/v	POST A POST A		57.5 e		53.8 cde
3	10 GPA AIXR110015 NOZZLES ENLIST ONE LIBERTY AMS	3.8 SL 2.34 SL		32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		67.5 abc		65.0 a
4	10 GPA TT1110015 NOZZLES ENLIST ONE LIBERTY AMS	3.8 SL 2.34 SL		32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		62.5 cde		55.0 cde
5	15 GPA XR11002 NOZZLES LIBERTY AMS	2.34 SL		32.0 oz/a 2.5 % v/v	POST A POST A		58.8 de		53.8 cde
6	15 GPA AIXR11002 NOZZLES ENLIST ONE LIBERTY AMS	3.8 SL 2.34 SL		32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		75.0 a		63.8 ab
7	15 GPA TT111002 NOZZLES ENLIST ONE LIBERTY AMS	3.8 SL 2.34 SL		32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		66.3 bcd		57.5 a-d
8	20 GPA XR110025 NOZZLES LIBERTY AMS	2.34 SL		32.0 oz/a 2.5 % v/v	POST A POST A		56.3 e		47.5 e
9	20 GPA AIXR110025 NOZZLES ENLIST ONE LIBERTY AMS	3.8 SL 2.34 SL		32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		71.3 ab		61.3 abc
10	20 GPA TT1110025 NOZZLES ENLIST ONE LIBERTY AMS	3.8 SL 2.34 SL		32.0 oz/a 32.0 oz/a 2.5 % v/v	POST A POST A POST A		68.8 abc		57.5 a-d
11	15 GPA AIXR11002 NOZZLES REFLEX CLASSIC INDUCE	2 SL 25 DG		24.0 oz/a 0.50 oz/a 0.25 % v/v	POST A POST A POST A		56.3 e		51.3 de

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.

Could not calculate LSD (% mean diff) for columns 4,6 because error mean square = 0.

^Calculated from residual.

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Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code					Amapa		Amapa		
Crop Code					-----		-----		
Part Rated									
Rating Data Type					Control		Control		
Rating Unit					%		%		
Rating Date					May-23-22		May-31-22		
Trt-Eval Interval					21 DA-A		29 DA-A		
Trt	Treatment	Form	Form	Rate	Grow	Appl	7		8
No.	Name	Conc	Type	Rate Unit	Stg	Code			
12	15 GPA						61.3 cde		56.3 bcd
	AIXR11002 NOZZLES								
	LIBERTY	2.34 SL		32.0 oz/a	POST A				
	EVERPREX	7.64 EC		16.0 oz/a	POST A				
LSD P=.10					7.52		8.10		
Standard Deviation					6.29		6.77		
CV					10.76		13.04		
Grand Mean					58.44		51.88		
Bartlett's X2^					32.242		22.272		
P(Bartlett's X2)					0.001*		0.022*		

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.
Could not calculate LSD (% mean diff) for columns 4,6 because error mean square = 0.
^Calculated from residual.

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DIFFERENT GPA AND NOZZLES TYPES

Trial ID: SB-02B-22 Study Dir.: JOHN RICHBURG

Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For ----- Glyma Chlorosis % May-9-22 7 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	847.916667			
Replicate	3	6.250000	2.083333	1.000	0.4051
Treatment	11	772.916667	70.265152	33.727	0.0001
Error	33	68.750000	2.083333		

Randomized Complete Block (RCB) AOV For ----- Glyma Necrosis % May-9-22 7 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	3032.812500			
Replicate	3	1.562500	0.520833	0.079	0.9709
Treatment	11	2814.062500	255.823864	38.871	0.0001
Error	33	217.187500	6.581439		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % May-9-22 7 DA-A (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	32841.666667			
Replicate	3	45.833333	15.277778	2.814	0.0544
Treatment	11	32616.666667	2965.151515	546.140	0.0001
Error	33	179.166667	5.429293		

Randomized Complete Block (RCB) AOV For ----- Glyma Necrosis % May-16-22 14 DA-A (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	33	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % May-16-22 14 DA-A (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	32539.916667			
Replicate	3	311.416667	103.805556	2.455	0.0805
Treatment	11	30832.916667	2802.992424	66.280	0.0001
Error	33	1395.583333	42.290404		

Randomized Complete Block (RCB) AOV For ----- Glyma Necrosis % May-23-22 21 DA-A (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	33	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % May-23-22 21 DA-A (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	18107.812500			
Replicate	3	251.562500	83.854167	2.121	0.1164
Treatment	11	16551.562500	1504.687500	38.059	0.0001
Error	33	1304.687500	39.535985		

Randomized Complete Block (RCB) AOV For Amapa ----- Control % May-31-22 29 DA-A (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	14531.250000			
Replicate	3	177.083333	59.027778	1.290	0.2942
Treatment	11	12843.750000	1167.613636	25.510	0.0001
Error	33	1510.416667	45.770202		

Rating Unit

% = PERCENT

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Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							----- Glyma	----- Glyma	Amapa -----	----- Glyma
Crop Code							Chlorosis %	Necrosis %	Control %	Necrosis %
Part Rated							May-9-22 7 DA-A	May-9-22 7 DA-A	May-9-22 7 DA-A	May-16-22 14 DA-A
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3
4	NTC						101	0.0	0.0	0.0
							212	0.0	0.0	0.0
							304	0.0	0.0	0.0
							402	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
2	10 GPA						102	10.0	0.0	90.0
	XR110015 NOZZLES						208	10.0	0.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		311	10.0	0.0	95.0
	AMS			2.5 % v/v	POST A		409	0.0	10.0	95.0
							Mean =	7.5	2.5	93.8
3	10 GPA						103	0.0	15.0	95.0
	AIXR110015 NOZZLES						206	0.0	20.0	95.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A		305	0.0	20.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		404	0.0	15.0	95.0
	AMS			2.5 % v/v	POST A		Mean =	0.0	17.5	95.0
4	10 GPA						104	0.0	15.0	90.0
	TTI110015 NOZZLES						203	0.0	20.0	95.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A		306	0.0	20.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		407	0.0	15.0	95.0
	AMS			2.5 % v/v	POST A		Mean =	0.0	17.5	93.8
5	15 GPA						105	10.0	0.0	90.0
	XR11002 NOZZLES						204	10.0	0.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		312	10.0	0.0	95.0
	AMS			2.5 % v/v	POST A		403	10.0	0.0	95.0
							Mean =	10.0	0.0	93.8
6	15 GPA						106	0.0	15.0	95.0
	AIXR11002 NOZZLES						209	0.0	15.0	95.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A		303	0.0	10.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		408	0.0	20.0	95.0
	AMS			2.5 % v/v	POST A		Mean =	0.0	15.0	95.0
7	15 GPA						107	0.0	20.0	95.0
	TTI11002 NOZZLES						201	0.0	15.0	95.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A		302	0.0	15.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		412	0.0	15.0	95.0
	AMS			2.5 % v/v	POST A		Mean =	0.0	16.3	95.0
8	20 GPA						108	10.0	0.0	95.0
	XR110025 NOZZLES						205	10.0	0.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		309	10.0	0.0	95.0
	AMS			2.5 % v/v	POST A		406	10.0	0.0	95.0
							Mean =	10.0	0.0	95.0
9	20 GPA						109	0.0	15.0	95.0
	AIXR110025 NOZZLES						211	0.0	15.0	95.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A		307	0.0	15.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		411	0.0	15.0	95.0
	AMS			2.5 % v/v	POST A		Mean =	0.0	15.0	95.0

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WEED CONTROL IN ENLIST SOYBEANS WITH DIFFERENT GPA AND NOZZLES TYPES										
Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code						----- Glyma	----- Glyma	Amapa -----	----- Glyma	Amapa -----
Crop Code						Chlorosis %	Necrosis %	Control %	Necrosis %	Control %
Part Rated						May-9-22 7 DA-A	May-9-22 7 DA-A	May-9-22 7 DA-A	May-16-22 14 DA-A	May-16-22 14 DA-A
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot		
									1	5
10	20 GPA							110	0.0	20.0
	TTI110025 NOZZLES							202	0.0	15.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A			308	0.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A			405	0.0	95.0
	AMS			2.5 % v/v	POST A					
								Mean =	0.0	17.5
11	15 GPA							111	0.0	20.0
	AIXR11002 NOZZLES							210	0.0	20.0
	REFLEX	2 SL		24.0 oz/a	POST A			301	0.0	20.0
	CLASSIC	25 DG		0.50 oz/a	POST A			410	0.0	20.0
	INDUCE			0.25 % v/v	POST A					
								Mean =	0.0	20.0
12	15 GPA							112	0.0	10.0
	AIXR11002 NOZZLES							207	0.0	10.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A			310	0.0	95.0
	EVERPREX	7.64 EC		16.0 oz/a	POST A			401	0.0	10.0
								Mean =	0.0	10.0

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WEED CONTROL IN ENLIST SOYBEANS WITH DIFFERENT GPA AND NOZZLES TYPES									
Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code					----- Glyma	Amapa -----	Amapa -----		
Crop Code					Necrosis %	Control %	Control %		
Part Rated					May-23-22 21 DA-A	May-23-22 21 DA-A	May-31-22 29 DA-A		
Rating Data Type									
Rating Unit									
Rating Date									
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	6	7	8
1	NTC					101	0.0	0.0	0.0
						212	0.0	0.0	0.0
						304	0.0	0.0	0.0
						402	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0
2	10 GPA					102	0.0	50.0	50.0
	XR110015 NOZZLES					208	0.0	65.0	60.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	311	0.0	55.0	50.0
	AMS			2.5 % v/v	POST A	409	0.0	60.0	55.0
						Mean =	0.0	57.5	53.8
3	10 GPA					103	0.0	65.0	65.0
	AIXR110015 NOZZLES					206	0.0	75.0	75.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A	305	0.0	65.0	60.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	404	0.0	65.0	60.0
	AMS			2.5 % v/v	POST A				
						Mean =	0.0	67.5	65.0
4	10 GPA					104	0.0	60.0	55.0
	TTI110015 NOZZLES					203	0.0	65.0	55.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A	306	0.0	65.0	60.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	407	0.0	60.0	50.0
	AMS			2.5 % v/v	POST A				
						Mean =	0.0	62.5	55.0
5	15 GPA					105	0.0	50.0	55.0
	XR11002 NOZZLES					204	0.0	65.0	50.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	312	0.0	60.0	55.0
	AMS			2.5 % v/v	POST A	403	0.0	60.0	55.0
						Mean =	0.0	58.8	53.8
6	15 GPA					106	0.0	85.0	65.0
	AIXR11002 NOZZLES					209	0.0	80.0	70.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A	303	0.0	70.0	65.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	408	0.0	65.0	55.0
	AMS			2.5 % v/v	POST A				
						Mean =	0.0	75.0	63.8
7	15 GPA					107	0.0	65.0	55.0
	TTI11002 NOZZLES					201	0.0	70.0	60.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A	302	0.0	65.0	60.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	412	0.0	65.0	55.0
	AMS			2.5 % v/v	POST A				
						Mean =	0.0	66.3	57.5
8	20 GPA					108	0.0	50.0	40.0
	XR110025 NOZZLES					205	0.0	55.0	50.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	309	0.0	60.0	45.0
	AMS			2.5 % v/v	POST A	406	0.0	60.0	55.0
						Mean =	0.0	56.3	47.5
9	20 GPA					109	0.0	80.0	65.0
	AIXR110025 NOZZLES					211	0.0	75.0	60.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A	307	0.0	65.0	65.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A	411	0.0	65.0	55.0
	AMS			2.5 % v/v	POST A				
						Mean =	0.0	71.3	61.3

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WEED CONTROL IN ENLIST SOYBEANS WITH DIFFERENT GPA AND NOZZLES TYPES									
Trial ID: SB-02B-22		Study Dir.: JOHN RICHBURG							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code					----- Glyma	Amapa -----	Amapa -----		
Crop Code					Necrosis %	Control %	Control %		
Part Rated					May-23-22 21 DA-A	May-23-22 21 DA-A	May-31-22 29 DA-A		
Rating Data Type									
Rating Unit									
Rating Date									
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	6	7
10	20 GPA						110	0.0	70.0
	TTI110025 NOZZLES						202	0.0	70.0
	ENLIST ONE	3.8 SL		32.0 oz/a	POST A		308	0.0	65.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		405	0.0	70.0
	AMS			2.5 % v/v	POST A				55.0
							Mean =	0.0	68.8
11	15 GPA						111	0.0	35.0
	AIXR11002 NOZZLES						210	0.0	60.0
	REFLEX	2 SL		24.0 oz/a	POST A		301	0.0	60.0
	CLASSIC	25 DG		0.50 oz/a	POST A		410	0.0	70.0
	INDUCE			0.25 % v/v	POST A				65.0
							Mean =	0.0	56.3
12	15 GPA						112	0.0	60.0
	AIXR11002 NOZZLES						207	0.0	65.0
	LIBERTY	2.34 SL		32.0 oz/a	POST A		310	0.0	60.0
	EVERPREX	7.64 EC		16.0 oz/a	POST A		401	0.0	60.0
							Mean =	0.0	61.3

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WEED CONTROL IN ENLIST SOYBEANS WITH DIFFERENT GPA AND NOZZLES TYPES	
Trial ID: SB-02B-22	Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko	

Rating Unit % = PERCENT
