University of Georgia

Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Reps: 3 Plots: 6 by 25 feet
Appl. Amount: 15 GAL/AC

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Mix Size	Amt Product to Measure	Diluent	Rep 1	2	3
1	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	101	205	307
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	1.5 L	16.62 mL/mx	1483.4 mL			
2	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	102	204	306
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	1.5 L	20.87 mL/mx	1479.1 mL			
3	CROP	ASGROW AG55XFO			150000	seeds/a		-	**517 seeds/1 pl**	-	103	213	304
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	1.5 L	25.0 mL/mx	1475 mL			
4	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	104	209	303
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	1.5 L	31.25 mL/mx	1468.8 mL			
5	CROP	ASGROW AG55XFO			150000	seeds/a		-	**517 seeds/1 pl**	-	105	202	305
	HERB	Lorox FL	4	F	1.00	pt/a	A	1.5 L	12.5 mL/mx	1487.5 mL			
6	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	106	201	312
	HERB	Lorox FL	4	F	1.25	pt/a	A	1.5 L	15.62 mL/mx	1484.4 mL			
7	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	107	206	302
	HERB	Lorox FL	4	F	1.5	pt/a	A	1.5 L	18.75 mL/mx	1481.3 mL			
8	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	108	212	301
	HERB	Lorox FL	4	F	2	pt/a	A	1.5 L	25.0 mL/mx	1475 mL			
9	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	109	208	311
	HERB	Lorox FL	4	F	2.25	pt/a	A	1.5 L	28.12 mL/mx	1471.9 mL			
10	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	110	211	309
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	1.5 L	16.62 mL/mx	1467.8 mL			
	HERB	Lorox FL	4	F	1.25	pt/a	A	1.5 L	15.62 mL/mx				
11	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	111	207	313
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	1.5 L	20.87 mL/mx	1460.4 mL			
	HERB	Lorox FL	4	F	1.5	pt/a	A	1.5 L	18.75 mL/mx				
12	CROP	ASGROW AG55XFO			150000	seeds/a		-	**517 seeds/1 pl**	-	112	203	310
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	1.5 L	31.25 mL/mx	1443.8 mL			
	HERB	Lorox FL	4	F	2	pt/a	A	1.5 L	25.0 mL/mx				
13		NTC								-	113	210	308

Sort Order: Treatment

Trial Comments

SUMMARY:

1) SOYBEAN STAND/DENSITY WAS NOT INFLUENCED BY ANY PRE TREATMENT.

2) FROM VISUAL RATINGS OBTAINED ON MAY 18 (28 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:

A)NO SOYBEAN LEAF NECROSIS OR LEAF MALFORMATIONS WERE OBSERVED.

B) SOYBEAN GROWTH REDUCTION/STUNTING WAS 10% OR GREATER WITH THE FOLLOWING TREATMENTS:

DUAL MAGNUM @ 1.67 PT/A, 2.0 PT/A, AND 2.5PT/A (10-18%)
DUAL MAGNUM @ 1.67 PT/A + LOROX @ 1.5 PT/A (13%)
DUAL MAGNUM @ 12.5 PT/A + LOROX @ 2.0 PT/A (17%)

C) LOROX ALONE WAS NOT VERY EFFECTIVE FOR THE CONTROL OF PALMER AMARANTH (28% TO 65% CONTROL).

D) DUAL MAGNUM DID NOT ADEQUATELY CONTROL WILD RADISH (<57% CONTROL).

E) LOROX PROVIDED 76-91% CONTROL OF WILD RADISH @ 1.5 PT/A OR HIGHER RATES.

F) DUAL MAGNUM PROVIDED AT LEAST 80% CONTROL OF ANNUAL GRASSES.

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G) LOROX PROVIDED POOR CONTROL OF ANNUL GRASSES (<50%).

H) CORN SPURRY CONTROL WITH DUAL MAGNUM AT RATES EQUAL TO OR GREATER THAN 1.67 PT/A WAS 75-90%.

I) CORN SPURRY CONTROL WITH LOROX AT RATES EQUAL TO OR GREATER THAN 1.25 PT/A EXCEEDED 86%.

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Project ID: Study Director: Bob Montgomery
Sponsor Contact:

General Trial Information

Study Director: Bob Montgomery **Title:** Contractor
Investigator: Bob Montgomery **Title:** _____

Discipline: ___
Trial Status: E established **Trial Reliability:** _____

ARM Trial Created On: Feb-23-21
Initiation Date: _____ **Planned Completion Date:** Aug-6-21 **Interim Data Due:** _____
Completion Date: _____

Trial Location

City: _____ **Country:** ___
State/Prov.: _____
Postal Code: _____ **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: _____ _
Longitude of LL Corner °: _____ _
GPS Accuracy of LL Corner: _____ __
Altitude of LL Corner: _____ _____
Angle y-axis to North °: _____
Directions:
GPS COORDINATES:

LL CORNER: 3.5065855, -83.658161
LR CORNER: 31.5066323, -83.658387
UR CORNER: 31.5063882, -83.658472
UL CORNER: 31.5063395, -83.658255

Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Other Trial ID:** _____
Study Rules: _____

No.	Guideline	Discipline	Description
1.			

Keywords:

Objectives:
Verify PRE efficacy and crop response of selected products alone and in tankmix in under varying evironments

Conclusions:

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Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Contacts

Role: STYDIR study director
Study Director: Bob Montgomery **Title:** Contractor
Organization: ADAMA **Org. Type:** Company
Address 1: 2211 North Old Troy Road **Phone No.:** none **Mobile No.:** 731-225
Address 2: _____
Country: USA United States **E-mail:** bob.montgomery@adama.com
City: Union City TN **State/Prov:** TN **Postal Code:** 38261

Role: INVEST investigator
Investigator: Bob Montgomery **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____

Role: SPONSR sponsor
Sponsor: _____ **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____

Role: COOPER cooperator
Cooperator: ERIC PROSTKO **Title:** PROFESSOR
Organization: UNIVERSITY OF GEORGIA **Org. Type:** _____
Address 1: 104 RESEARCH WAY **Phone No.:** _____ **Mobile**
Address 2: _____
Country: USA United States **E-mail:** eprostko@uga.edu
City: TIFTON **State/Prov:** GEORGIA **Postal C**

Role: _____
Contact Name 5: _____ **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____

Crop Description

Crop 1: C GLXMA Glycine max Soybean
Entry Date: Apr-19-21 **Stage Scale:** BBCH
Variety: AG55FXO
Attributes: _____

Seed Shape: _____ **Seed Size:** 2890 S/LB
Perennial Age: _____ _____
Nursery Date: _____
Planting Date: Apr-19-21 **Planting Rate:** 8 S/FT
Depth: 1.5 IN **Planting Density:** _____ _____
Rows per Plot: 2 **Planting Method:** DRILLE drilled
Row Spacing: 36 IN **Planting Equipment:** VP vacuum pla
Spacing within Row: _____ _____ **Seed Bed:** _____
Soil Temperature: _____ _ **Soil Moisture:** OPT

Emergence Date: _____

Harvest Date: _____ **Harvest Equipment:** _____
Moisture Meter: _____ **Harvested Width:** _____ _____
% Standard Moisture: _____ **Harvested Length:** _____ _____
Weighing Equipment: _____

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Pest Description

Pest 1 Type: W **Code:** AMAPA Amaranthus palmeri **Entry Date:** Apı
Common Name: Palmer amaranth **Stage Scale:** BB
Attributes: _____ **Artificial Population:** _
Establishment Date: _____ **Stage at Establishment:** ___
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Pest 2 Type: W **Code:** AGRASS ANNUAL GRASSES **Entry Date:** Apı
Common Name: TX PANICUM/CRAB/GOOSE/CROW **Stage Scale:** BB
Attributes: _____ **Artificial Population:** _
Establishment Date: _____ **Stage at Establishment:** ___
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Pest 3 Type: W **Code:** RAPRA Raphanus raphanistrum **Entry Date:** Ma
Common Name: Wild radish **Stage Scale:** BB
Attributes: _____ **Artificial Population:** _
Establishment Date: _____ **Stage at Establishment:** ___
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Pest 4 Type: W **Code:** SPRAR Spergula arvensis **Entry Date:** Ma
Common Name: Corn spurry **Stage Scale:** BB
Attributes: _____ **Artificial Population:** _
Establishment Date: _____ **Stage at Establishment:** ___
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Site and Design

Treated Plot Width: 6 FT **Site Type:** FIELD field
Treated Plot Length: 25 FT **Experimental Unit:** _____ _____
Treated Plot Area: 150.0 FT2 **Treatments:** 13 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)
% Slope: _____

Trial Initiation Comments:

No.	Previous Crop	Previous Pest Type	Previous Pest	Previous Pesticides	Year	Month	Comment
1.							

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix
1.										

Comment:

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Field Prep./Maintenance:
300 LBS/A 5-15-30 PREPLANT
ACCLERON SEED TRT

Soil Description
Description Name: _____
% Sand: 94 **% OM:** 0.8 **Texture:** SAND
% Silt: 4 **pH:** 6.0 **Soil Name:** TIFTON
% Clay: 2 **CEC:** 3.3 **Fert. Level:** G good
Soil Drainage: _
Analyzed By:

Additional Measured Elements

Date	Element	Quantity	Unit

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

No.	Date	Time	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Min % Relative Humidity	Max % Relative Humidity	Avg % Relative Humidity	Min Wind	Max Wind	Avg Win
1.														

Comment:
RAINFALL/IRRIGATION DATA:

04/20: 0.35" IRRIGATION
04/24: 6.0" RAINFALL
05/03: 0.1" RAINFALL
05/04: 1.15" RAINFALL
05/11: 0.15" RAINFALL
05/12: 0.6" IRRIGATION
06/01: 0.5" IRRIGATION

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Sponsor Contact:

Application Description

	A
Application Date	Apr-20-21
Appl. Start Time	
Appl. Stop Time	7:40 AM
Application Method	BROADC
Application Timing	PREPRE
Application Placement	BROSOI
Applied By	EPP
Appl. Entry Date	May-18-21
Air Temperature Start, Stop	, 57 F
% Relative Humidity Start, Stop	83,
Wind Velocity+Dir. Start	0 KPH,
Wind Velocity+Dir. Stop	,
Wind Velocity+Dir. Max	,
Wet Leaves (Y/N)	N, no
Soil Temperature	64 F
Soil Moisture	OPTIMUM
Soil Surface Condition	FRIABL
% Cloud Cover	100
Next Moisture Occurred On	
Time to Next Moisture	
Moisture 6 Hours after Appl.	
Moisture 1 Week after Appl.	

Comment:

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	GLXMA, BSOY
Days after Emergence	
Stage Majority, Percent	01,
Stage Minimum, Percent	00,
Stage Maximum, Percent	05,
Diameter Average	
Diameter Minimum, Maximum	,
Height Average	
Height Minimum, Maximum	,
Density Average	
Density Minimum, Maximum	,
Coverage	

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	AMAPA, W, NOSC
Stage Majority, Percent	1,

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Stage Minimum, Percent	0,
Stage Maximum, Percent	3,
Diameter Average	
Diameter Minimum, Maximum	,
Height Average	
Height Minimum, Maximum	,
Density Average	
Density Minimum, Maximum	,
Coverage	
Crop Part Attacked, Code	,
Pest 2 Code, Type, Scale	AGRASS, W, NOSC
Stage Majority, Percent	,
Stage Minimum, Percent	,
Stage Maximum, Percent	,
Diameter Average	
Diameter Minimum, Maximum	,
Height Average	
Height Minimum, Maximum	,
Density Average	
Density Minimum, Maximum	,
Coverage	
Crop Part Attacked, Code	,
Pest 3 Code, Type, Scale	RAPRA, W, NOSC
Stage Majority, Percent	,
Stage Minimum, Percent	,
Stage Maximum, Percent	,
Diameter Average	
Diameter Minimum, Maximum	,
Height Average	
Height Minimum, Maximum	,
Density Average	
Density Minimum, Maximum	,
Coverage	
Crop Part Attacked, Code	,
Pest 4 Code, Type, Scale	SPRAR, W, NOSC
Stage Majority, Percent	,
Stage Minimum, Percent	,
Stage Maximum, Percent	,
Diameter Average	
Diameter Minimum, Maximum	,
Height Average	
Height Minimum, Maximum	,
Density Average	
Density Minimum, Maximum	,
Coverage	
Crop Part Attacked, Code	,

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Application Equipment

	A
Appl. Equipment	
Equipment Type	BACCAI
Operation Pressure	35 PSI
Nozzle Model	11002
Nozzle Type	AIXR
Nozzle TradeName	
Nozzle Tip Size, Color	,
Nozzle Spacing	20.0 IN
Nozzles/Row	
Band Width	
% Coverage	100
Boom ID	
Boom Length	60.0 IN
Boom Height	20 IN
Ground Speed	3.5 MPH
Carrier	WATER
Water Hardness (ppm CaCO3)	
Application Amount	15 GAL/AC
Mix Overage	
Mix Size	1.5 L
Spray pH	
Propellant	COMCO2
Tank Mix (Y/N)	,

Equipment Comment:

Treatment Appl. Comments
Trt No Treatment Application Comment

Notes

Context	Date	By	Notes
STATUS	Feb-23-21	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Apr-19-21	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.

Deviations

No. 1: Date:_____ By:_____
Deviations:
Reasons:

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SE Definitions

	1.
Rating Timing	
SE Name	
SE Description	
Part Rated	,
Rating Type	
Rating Unit/Min/Max	, ,
Sample Size	
Collection Basis	
Reporting Basis	
Number of Subsamples	
ARM Action Codes	
Pest Type, Code	,
Crop Type, Code	,

No. Task Comment
1. ___

Instructions:

Geographic Area/Environmental Considerations:
The trial should be planted as early as conditions allow during recommended soybean planting dates for the geography
If rainfall does not occur withing 5 days after herbicide application trial should be irrigated to activate herbicides.
Herbicide treatments should be made +/- 2 days of planting. Application at planting or w/i 2 DAP preferred.
Please record the GPS coordinates in each corner of the trial so that soil data can be correlated.
If weeds are emerged at time of herbicide treatment application trial area should be treated with a burndown herbicide that has no residual soil activity

Cropping Considerations:
Conventional tillage is preferred but not required.
Soybean Variety - Asgrow AG 48X9

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Data to Collect:

Soybean injury	Soybean Stand Count	Weed control by species
14,21,28 DAP	14,28 DAP	14,28 DAP

Irrigation or rainfall >.5" inches w/i 5 DAA
Data collection intervals indicated above.
Soybean injury:
% Chlorosis
% Necrosis
% Malformation
% Growth Reduction
Record the an injury observation for each variable and rating period regardless of it is 0% = not present or 100% = dead.

Weed Control recorded as:
% Control by species present

Stand Count;
Number of plants per 10 feet of row in each of center 2 treatment rows. Each row recorded separately.

Statistical Analysis:
RCB design mean separation

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Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	1	2	3	4	5
		Pest Name						C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA	Amapa
		Crop Type, Code										
		Rating Date						May-3-21	May-3-21	May-3-21	May-3-21	May-3-21
		Rating Type						Chlorosis	Necrosis	Malformatio	GrowthReduc	Control
		Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
		Data Entry Date						May-3-21	May-3-21	May-3-21	May-3-21	May-3-21
1	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 a	0.0 a	5.0 cde	99.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 a	5.0 cde	99.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	3.3 a	0.0 a	8.3 abc	99.0 a
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 a	0.0 a	11.7 a	99.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	1.7 a	0.0 a	3.3 def	99.0 a
	HERB	Lorox FL	4	F	1.00	pt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	3.3 a	0.0 a	3.3 def	99.0 a
	HERB	Lorox FL	4	F	1.25	pt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 a	3.3 def	99.0 a
	HERB	Lorox FL	4	F	1.5	pt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 a	0.0 a	3.3 def	96.0 b
	HERB	Lorox FL	4	F	2	pt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 a	0.0 a	1.7 ef	99.0 a
	HERB	Lorox FL	4	F	2.25	pt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 a	6.7 bcd	99.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Lorox FL	4	F	1.25	pt/a	A					
11	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 a	0.0 a	8.3 abc	99.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Lorox FL	4	F	1.5	pt/a	A					
12	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	0.0 a	10.0 ab	99.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Lorox FL	4	F	2	pt/a	A					
13		NTC						0.0 a	0.0 a	0.0 a	0.0 f	0.0 c
LSD P=.10								.	3.08	.	3.45	2.01
Standard Deviation								0.00	2.20	0.00	2.47	1.44
CV								0.0	171.97	0.0	45.83	1.58
Grand Mean								0.00	1.28	0.00	5.38	91.15
Bartlett's X2^								.	11.529	.	19.447	46.349
P(Bartlett's X2)								.	0.484	.	0.078	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.
Could not calculate LSD (% mean diff) for columns 1,3,8,10,11,15,16,17 because error mean square = 0.
^Calculated from residual.

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Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	6	7	8	9	10
Pest Name								Agras	Rapra	Sprar		
Crop Type, Code											C, GLYMA	C, GLYMA
Rating Date								May-3-21	May-3-21	May-3-21	May-3-21	May-11-21
Rating Type								Control	Control	Control	PlantStand	Chlorosis
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100	#/5ft, -, -	%, 0, 100
Data Entry Date								May-3-21	May-3-21	May-3-21	May-3-21	May-11-21
1	CROP	ASGROW AG55FXO			150000	seeds/a		93.0 ab	50.0 c	99.0 a	39.0 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		95.0 ab	60.0 bc	99.0 a	39.0 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55XFO			150000	seeds/a		88.3 ab	60.0 bc	99.0 a	38.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		96.3 a	78.3 abc	99.0 a	39.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55XFO			150000	seeds/a		38.3 c	85.0 abc	99.0 a	41.0 a	0.0 a
	HERB	Lorox FL	4	F	1.00	pt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		33.3 c	51.7 c	99.0 a	39.3 a	0.0 a
	HERB	Lorox FL	4	F	1.25	pt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		40.0 c	89.7 ab	99.0 a	38.7 a	0.0 a
	HERB	Lorox FL	4	F	1.5	pt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		38.3 c	91.7 ab	99.0 a	41.3 a	0.0 a
	HERB	Lorox FL	4	F	2	pt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		70.0 b	90.0 ab	99.0 a	40.0 a	0.0 a
	HERB	Lorox FL	4	F	2.25	pt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		83.3 ab	88.3 ab	99.0 a	36.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Lorox FL	4	F	1.25	pt/a	A					
11	CROP	ASGROW AG55FXO			150000	seeds/a		97.7 a	97.7 a	99.0 a	39.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Lorox FL	4	F	1.5	pt/a	A					
12	CROP	ASGROW AG55XFO			150000	seeds/a		97.7 a	99.0 a	99.0 a	39.7 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Lorox FL	4	F	2	pt/a	A					
13		NTC						0.0 d	0.0 d	0.0 b	39.7 a	0.0 a
LSD P=.10								25.09	35.09	.	4.54	.
Standard Deviation								17.96	25.12	0.00	3.25	0.00
CV								26.8	34.69	0.0	8.26	0.0
Grand Mean								67.03	72.41	91.38	39.31	0.00
Bartlett's X2^								15.175	29.942	.	9.797	.
P(Bartlett's X2)								0.232	0.003*	.	0.634	.

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^Calculated from residual.

University of Georgia

Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	11	12	13	14	15
Pest Name								C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA
Crop Type, Code								May-11-21	May-11-21	May-11-21	May-17-21	May-18-21
Rating Date								Necrosis	Malformatio	Growthreduc	Stand	Chlorosis
Rating Type								%, 0, 100	%, 0, 100	%, 0, 100	#/5ft, -, -	%, 0, 100
Rating Unit/Min/Max								May-11-21	May-11-21	May-11-21	May-17-21	May-18-21
Data Entry Date												
1	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	5.0 d	40.0 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	8.3 c	38.7 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	11.7 b	39.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	16.7 a	40.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	0.0 f	39.7 a	0.0 a
	HERB	Lorox FL	4	F	1.00	pt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 ef	40.3 a	0.0 a
	HERB	Lorox FL	4	F	1.25	pt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 a	3.3 de	38.7 a	0.0 a
	HERB	Lorox FL	4	F	1.5	pt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	3.3 de	41.0 a	0.0 a
	HERB	Lorox FL	4	F	2	pt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 ef	42.7 a	0.0 a
	HERB	Lorox FL	4	F	2.25	pt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	8.3 c	42.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Lorox FL	4	F	1.25	pt/a	A					
11	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	3.3 a	15.0 a	39.7 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Lorox FL	4	F	1.5	pt/a	A					
12	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	16.7 a	35.3 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Lorox FL	4	F	2	pt/a	A					
13		NTC						0.0 a	0.0 a	0.0 f	39.3 a	0.0 a
LSD P=.10								.	2.54	3.29	3.41	.
Standard Deviation								0.00	1.82	2.36	2.44	0.00
CV								0.0	473.17	33.43	6.14	0.0
Grand Mean								0.00	0.38	7.05	39.79	0.00
Bartlett's X2^								.	50.907	10.197	3.87	.
P(Bartlett's X2)								.	0.00*	0.599	0.986	.

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^Calculated from residual.

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	16	17	18	19	20
Pest Name											Amapa	Rapra
Crop Type, Code								C, GLYMA	C, GLYMA	C, GLYMA		
Rating Date								May-18-21	May-18-21	May-18-21	May-18-21	May-18-21
Rating Type								Necrosis	Malformatio	Groinhib	Control	Control
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Data Entry Date								May-18-21	May-18-21	May-18-21	May-18-21	May-18-21
1	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	5.0 d	78.0 abc	36.7 de
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	13.3 bc	88.0 abc	56.7 bcd
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	10.0 c	96.3 ab	0.0 e
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	18.3 a	96.3 ab	38.3 cde
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	0.0 e	28.3 de	61.3 a-d
	HERB	Lorox FL	4	F	1.00	pt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 e	56.7 cd	36.7 de
	HERB	Lorox FL	4	F	1.25	pt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 e	58.0 bcd	76.3 abc
	HERB	Lorox FL	4	F	1.5	pt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 e	64.7 a-d	91.3 ab
	HERB	Lorox FL	4	F	2	pt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 e	91.0 abc	89.7 ab
	HERB	Lorox FL	4	F	2.25	pt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	3.3 de	99.0 a	74.7 a-d
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Lorox FL	4	F	1.25	pt/a	A					
11	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	13.3 bc	99.0 a	91.3 ab
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Lorox FL	4	F	1.5	pt/a	A					
12	CROP	ASGROW AG55XFO			150000	seeds/a		0.0 a	0.0 a	16.7 ab	97.7 a	97.7 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Lorox FL	4	F	2	pt/a	A					
13		NTC						0.0 a	0.0 a	0.0 e	0.0 e	0.0 e
LSD P=.10								.	.	3.70	39.27	39.38
Standard Deviation								0.00	0.00	2.65	28.12	28.19
CV								0.0	0.0	42.99	38.35	48.82
Grand Mean								0.00	0.00	6.15	73.31	57.74
Bartlett's X2^								.	.	22.423	20.731	35.56
P(Bartlett's X2)								.	.	0.033*	0.054	0.00*

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	21	22	23	24	25
Pest Name								Agrass	Sprar	Amapa	Rapra	Agrass
Crop Type, Code												
Rating Date								May-18-21	May-18-21	Jun-11-21	Jun-11-21	Jun-11-21
Rating Type								Control	Control	Control	Control	Control
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Data Entry Date								May-18-21	May-18-21	Jun-11-21	Jun-11-21	Jun-11-21
1	CROP	ASGROW AG55FXO			150000	seeds/a		93.0 a	63.3 e	74.7 a	0.0 e	75.0 ab
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		90.0 a	75.0 d	79.7 a	56.7 a-d	65.0 b
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55XFO			150000	seeds/a		80.0 a	78.3 cd	76.3 a	0.0 e	63.3 b
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		97.7 a	90.0 ab	88.0 a	41.7 cde	91.7 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55XFO			150000	seeds/a		16.7 cd	79.7 bcd	45.0 b	49.7 bcd	0.0 d
	HERB	Lorox FL	4	F	1.00	pt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		20.0 cd	86.3 bc	66.7 ab	33.3 de	0.0 d
	HERB	Lorox FL	4	F	1.25	pt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		36.7 bc	99.0 a	70.0 ab	66.3 a-d	0.0 d
	HERB	Lorox FL	4	F	1.5	pt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		31.7 bc	99.0 a	76.3 a	66.7 a-d	13.3 cd
	HERB	Lorox FL	4	F	2	pt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		48.3 b	99.0 a	87.7 a	89.7 ab	26.7 c
	HERB	Lorox FL	4	F	2.25	pt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		86.3 a	97.7 a	93.0 a	38.3 cde	61.7 b
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Lorox FL	4	F	1.25	pt/a	A					
11	CROP	ASGROW AG55FXO			150000	seeds/a		93.3 a	97.7 a	88.3 a	78.0 abc	76.7 ab
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Lorox FL	4	F	1.5	pt/a	A					
12	CROP	ASGROW AG55XFO			150000	seeds/a		94.7 a	99.0 a	89.3 a	94.3 a	78.3 ab
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Lorox FL	4	F	2	pt/a	A					
13		NTC						0.0 d	0.0 f	0.0 c	0.0 e	0.0 d
LSD P=.10								24.36	11.32	27.17	41.82	19.48
Standard Deviation								17.44	8.10	19.45	29.94	13.94
CV								28.76	9.9	27.04	63.32	32.86
Grand Mean								60.64	81.85	71.92	47.28	42.44
Bartlett's X2^								3.614	19.441	17.901	25.553	18.271
P(Bartlett's X2)								0.989	0.078	0.119	0.012*	0.108

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Chlorosis % 0 100 May-3-21 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Necrosis % 0 100 May-3-21 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	185.897436			
Replicate	2	16.666667	8.333333	1.714	0.2014
Treatment	12	52.564103	4.380342	0.901	0.5588
Error	24	116.666667	4.861111		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Malformatio % 0 100 May-3-21 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 GrowthReduc % 0 100 May-3-21 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	569.230769			
Replicate	2	3.846154	1.923077	0.316	0.7322
Treatment	12	419.230769	34.935897	5.737	0.0001
Error	24	146.153846	6.089744		

Randomized Complete Block (RCB) AOV For Amapa May-3-21 Control % 0 100 May-3-21 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	27083.076923			
Replicate	2	4.153846	2.076923	1.000	0.3827
Treatment	12	27029.076923	2252.423077	1084.500	0.0001
Error	24	49.846154	2.076923		

Randomized Complete Block (RCB) AOV For Agras May-3-21 Control % 0 100 May-3-21 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	47950.974359			
Replicate	2	1425.282051	712.641026	2.209	0.1317
Treatment	12	38781.641026	3231.803419	10.016	0.0001
Error	24	7744.051282	322.668803		

Randomized Complete Block (RCB) AOV For Rapra May-3-21 Control % 0 100 May-3-21 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	44219.435897			
Replicate	2	1315.282051	657.641026	1.042	0.3681
Treatment	12	27761.435897	2313.452991	3.667	0.0033
Error	24	15142.717949	630.946581		

Randomized Complete Block (RCB) AOV For Sprar May-3-21 Control % 0 100 May-3-21 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	27141.230769			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	12	27141.230769	2261.769231	0.000	1.0000
Error	24	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 PlantStand #/5ft May-3-21 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	316.307692			
Replicate	2	8.769231	4.384615	0.416	0.6646
Treatment	12	54.307692	4.525641	0.429	0.9358
Error	24	253.230769	10.551282		

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Chlorosis % 0 100 May-11-21 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

University of Georgia

Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Necrosis % 0 100 May-11-21 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Malformatio % 0 100 May-11-21 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	119.230769			
Replicate	2	3.846154	1.923077	0.581	0.5672
Treatment	12	35.897436	2.991453	0.903	0.5570
Error	24	79.487179	3.311966		

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Growthreduc % 0 100 May-11-21 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	1535.897436			
Replicate	2	16.666667	8.333333	1.500	0.2433
Treatment	12	1385.897436	115.491453	20.788	0.0001
Error	24	133.333333	5.555556		

Randomized Complete Block (RCB) AOV For C GLYMA May-17-21 Stand #/5ft May-17-21 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	262.358974			
Replicate	2	0.205128	0.102564	0.017	0.9830
Treatment	12	119.025641	9.918803	1.663	0.1395
Error	24	143.128205	5.963675		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Chlorosis % 0 100 May-18-21 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Necrosis % 0 100 May-18-21 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Malformatio % 0 100 May-18-21 (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	12	0.000000000000	0.000000000000	0.000	1.0000
Error	24	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Groinhib % 0 100 May-18-21 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	2023.076923			
Replicate	2	15.384615	7.692308	1.099	0.3493
Treatment	12	1839.743590	153.311966	21.908	0.0001
Error	24	167.948718	6.997863		

Randomized Complete Block (RCB) AOV For Amapa May-18-21 Control % 0 100 May-18-21 (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	57804.307692			
Replicate	2	4310.923077	2155.461538	2.727	0.0857
Treatment	12	34522.307692	2876.858974	3.639	0.0034
Error	24	18971.076923	790.461538		

Randomized Complete Block (RCB) AOV For Rapra May-18-21 Control % 0 100 May-18-21 (Data Column 20)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	59669.435897			
Replicate	2	251.743590	125.871795	0.158	0.8544
Treatment	12	40348.102564	3362.341880	4.232	0.0013
Error	24	19069.589744	794.566239		

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Randomized Complete Block (RCB) AOV For Agrass May-18-21 Control % 0 100 May-18-21 (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	56838.974359			
Replicate	2	3428.666667	1714.333333	5.636	0.0099
Treatment	12	46109.641026	3842.470085	12.632	0.0001
Error	24	7300.666667	304.194444		

Randomized Complete Block (RCB) AOV For Sprar May-18-21 Control % 0 100 May-18-21 (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	28465.076923			
Replicate	2	280.153846	140.076923	2.133	0.1404
Treatment	12	26609.076923	2217.423077	33.771	0.0001
Error	24	1575.846154	65.660256		

Randomized Complete Block (RCB) AOV For Amapa Jun-11-21 Control % 0 100 Jun-11-21 (Data Column 23)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	34340.769231			
Replicate	2	2587.076923	1293.538462	3.420	0.0493
Treatment	12	22675.435897	1889.619658	4.996	0.0004
Error	24	9078.256410	378.260684		

Randomized Complete Block (RCB) AOV For Rapra Jun-11-21 Control % 0 100 Jun-11-21 (Data Column 24)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	60367.897436			
Replicate	2	459.435897	229.717949	0.256	0.7760
Treatment	12	38397.897436	3199.824786	3.570	0.0039
Error	24	21510.564103	896.273504		

Randomized Complete Block (RCB) AOV For Agrass Jun-11-21 Control % 0 100 Jun-11-21 (Data Column 25)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	52443.589744			
Replicate	2	1101.282051	550.641026	2.833	0.0786
Treatment	12	46676.923077	3889.743590	20.010	0.0001
Error	24	4665.384615	194.391026		

Crop Type, Code
C = EPPO species (Bayer) codes
Rating Unit/Min/Max
%, 0, 100 = percent

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	C, GLYMA May-3-21 Chlorosis %, 0, 100 May-3-21 1	C, GLYMA May-3-21 Necrosis %, 0, 100 May-3-21 2	C, GLYMA May-3-21 Malformatio %, 0, 100 May-3-21 3	C, GLYMA May-3-21 GrowthReduc %, 0, 100 May-3-21 4
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	205	0.0	5.0	0.0	5.0
								307	0.0	0.0	0.0	5.0
								Mean =	0.0	1.7	0.0	5.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	204	0.0	0.0	0.0	5.0
								306	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	5.0
3	CROP	ASGROW AG55XFO			150000	seeds/a		103	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	213	0.0	5.0	0.0	10.0
								304	0.0	5.0	0.0	5.0
								Mean =	0.0	3.3	0.0	8.3
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	0.0	5.0	0.0	15.0
								303	0.0	0.0	0.0	10.0
								Mean =	0.0	1.7	0.0	11.7
5	CROP	ASGROW AG55XFO			150000	seeds/a		105	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.00	pt/a	A	202	0.0	0.0	0.0	5.0
								305	0.0	5.0	0.0	5.0
								Mean =	0.0	1.7	0.0	3.3
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	201	0.0	5.0	0.0	5.0
								312	0.0	5.0	0.0	5.0
								Mean =	0.0	3.3	0.0	3.3
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	206	0.0	0.0	0.0	5.0
								302	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	3.3
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	0.0	5.0	0.0	5.0
	HERB	Lorox FL	4	F	2	pt/a	A	212	0.0	0.0	0.0	5.0
								301	0.0	0.0	0.0	0.0
								Mean =	0.0	1.7	0.0	3.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	2.25	pt/a	A	208	0.0	0.0	0.0	0.0
								311	0.0	5.0	0.0	5.0
								Mean =	0.0	1.7	0.0	1.7
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	211	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	309	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	6.7
11	CROP	ASGROW AG55FXO			150000	seeds/a		111	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	207	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	313	0.0	5.0	0.0	10.0
								Mean =	0.0	1.7	0.0	8.3
12	CROP	ASGROW AG55XFO			150000	seeds/a		112	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	203	0.0	0.0	0.0	10.0
	HERB	Lorox FL	4	F	2	pt/a	A	310	0.0	0.0	0.0	10.0
								Mean =	0.0	0.0	0.0	10.0
13		NTC						113	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0
								308	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	Amapa May-3-21 Control %, 0, 100 May-3-21	Agras May-3-21 Control %, 0, 100 May-3-21	Rapra May-3-21 Control %, 0, 100 May-3-21	Sprar May-3-21 Control %, 0, 100 May-3-21	C, GLYMA May-3-21 PlantStand #/5ft, -, - May-3-21
									5	6	7	8	9
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	99.0	99.0	0.0	99.0	34.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	205	99.0	85.0	85.0	99.0	43.0
								307	99.0	95.0	65.0	99.0	40.0
								Mean =	99.0	93.0	50.0	99.0	39.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	99.0	95.0	0.0	99.0	36.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	204	99.0	95.0	85.0	99.0	38.0
								306	99.0	95.0	95.0	99.0	43.0
								Mean =	99.0	95.0	60.0	99.0	39.0
3	CROP	ASGROW AG55XFO			150000	seeds/a		103	99.0	95.0	30.0	99.0	38.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	213	99.0	85.0	65.0	99.0	40.0
								304	99.0	85.0	85.0	99.0	37.0
								Mean =	99.0	88.3	60.0	99.0	38.3
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	99.0	99.0	85.0	99.0	46.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	99.0	95.0	85.0	99.0	37.0
								303	99.0	95.0	65.0	99.0	35.0
								Mean =	99.0	96.3	78.3	99.0	39.3
5	CROP	ASGROW AG55XFO			150000	seeds/a		105	99.0	30.0	95.0	99.0	42.0
	HERB	Lorox FL	4	F	1.00	pt/a	A	202	99.0	65.0	65.0	99.0	37.0
								305	99.0	20.0	95.0	99.0	44.0
								Mean =	99.0	38.3	85.0	99.0	41.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	99.0	30.0	90.0	99.0	37.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	201	99.0	50.0	0.0	99.0	42.0
								312	99.0	20.0	65.0	99.0	39.0
								Mean =	99.0	33.3	51.7	99.0	39.3
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	99.0	40.0	85.0	99.0	42.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	206	99.0	60.0	99.0	99.0	38.0
								302	99.0	20.0	85.0	99.0	36.0
								Mean =	99.0	40.0	89.7	99.0	38.7
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	99.0	85.0	85.0	99.0	40.0
	HERB	Lorox FL	4	F	2	pt/a	A	212	99.0	20.0	95.0	99.0	44.0
								301	90.0	10.0	95.0	99.0	40.0
								Mean =	96.0	38.3	91.7	99.0	41.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	99.0	85.0	85.0	99.0	39.0
	HERB	Lorox FL	4	F	2.25	pt/a	A	208	99.0	95.0	90.0	99.0	40.0
								311	99.0	30.0	95.0	99.0	41.0
								Mean =	99.0	70.0	90.0	99.0	40.0
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	99.0	95.0	95.0	99.0	35.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	211	99.0	60.0	85.0	99.0	37.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	309	99.0	95.0	85.0	99.0	37.0
								Mean =	99.0	83.3	88.3	99.0	36.3
11	CROP	ASGROW AG55FXO			150000	seeds/a		111	99.0	95.0	95.0	99.0	40.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	207	99.0	99.0	99.0	99.0	42.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	313	99.0	99.0	99.0	99.0	36.0
								Mean =	99.0	97.7	97.7	99.0	39.3
12	CROP	ASGROW AG55XFO			150000	seeds/a		112	99.0	99.0	99.0	99.0	41.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	203	99.0	95.0	99.0	99.0	42.0
	HERB	Lorox FL	4	F	2	pt/a	A	310	99.0	99.0	99.0	99.0	36.0
								Mean =	99.0	97.7	99.0	99.0	39.7
13		NTC						113	0.0	0.0	0.0	0.0	42.0
								210	0.0	0.0	0.0	0.0	38.0
								308	0.0	0.0	0.0	0.0	39.0
								Mean =	0.0	0.0	0.0	0.0	39.7

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	C, GLYMA May-11-21 Chlorosis %, 0, 100 May-11-21	C, GLYMA May-11-21 Necrosis %, 0, 100 May-11-21	C, GLYMA May-11-21 Malformatio %, 0, 100 May-11-21	C, GLYMA May-11-21 Growthreduc %, 0, 100 May-11-21
									10	11	12	13
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	205	0.0	0.0	0.0	5.0
								307	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	5.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	204	0.0	0.0	0.0	10.0
								306	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	8.3
3	CROP	ASGROW AG55XFO			150000	seeds/a		103	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	213	0.0	0.0	0.0	15.0
								304	0.0	0.0	0.0	10.0
								Mean =	0.0	0.0	0.0	11.7
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	0.0	0.0	0.0	15.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	0.0	0.0	0.0	20.0
								303	0.0	0.0	0.0	15.0
								Mean =	0.0	0.0	0.0	16.7
5	CROP	ASGROW AG55XFO			150000	seeds/a		105	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.00	pt/a	A	202	0.0	0.0	0.0	0.0
								305	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	201	0.0	0.0	0.0	0.0
								312	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	1.7
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	206	0.0	0.0	5.0	5.0
								302	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	1.7	3.3
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	2	pt/a	A	212	0.0	0.0	0.0	5.0
								301	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	3.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	2.25	pt/a	A	208	0.0	0.0	0.0	0.0
								311	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	1.7
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	211	0.0	0.0	0.0	5.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	309	0.0	0.0	0.0	10.0
								Mean =	0.0	0.0	0.0	8.3
11	CROP	ASGROW AG55FXO			150000	seeds/a		111	0.0	0.0	10.0	15.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	207	0.0	0.0	0.0	15.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	313	0.0	0.0	0.0	15.0
								Mean =	0.0	0.0	3.3	15.0
12	CROP	ASGROW AG55XFO			150000	seeds/a		112	0.0	0.0	0.0	15.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	203	0.0	0.0	0.0	15.0
	HERB	Lorox FL	4	F	2	pt/a	A	310	0.0	0.0	0.0	20.0
								Mean =	0.0	0.0	0.0	16.7
13		NTC						113	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0
								308	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	C, GLYMA May-17-21 Stand #/5ft, -, -	C, GLYMA May-18-21 Chlorosis %, 0, 100	C, GLYMA May-18-21 Necrosis %, 0, 100	C, GLYMA May-18-21 Malformatio %, 0, 100	C, GLYMA May-18-21 Groinhib %, 0, 100
		Pest Name											
		Crop Type, Code											
		Rating Date							May-17-21	May-18-21	May-18-21	May-18-21	May-18-21
		Rating Type											
		Rating Unit/Min/Max											
		Data Entry Date							May-17-21	May-18-21	May-18-21	May-18-21	May-18-21
									14	15	16	17	18
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	42.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	205	38.0	0.0	0.0	0.0	5.0
								307	40.0	0.0	0.0	0.0	0.0
								Mean =	40.0	0.0	0.0	0.0	5.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	42.0	0.0	0.0	0.0	15.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	204	37.0	0.0	0.0	0.0	15.0
								306	37.0	0.0	0.0	0.0	10.0
								Mean =	38.7	0.0	0.0	0.0	13.3
3	CROP	ASGROW AG55XFO			150000	seeds/a		103	38.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	213	42.0	0.0	0.0	0.0	10.0
								304	38.0	0.0	0.0	0.0	10.0
								Mean =	39.3	0.0	0.0	0.0	10.0
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	42.0	0.0	0.0	0.0	20.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	39.0	0.0	0.0	0.0	15.0
								303	40.0	0.0	0.0	0.0	20.0
								Mean =	40.3	0.0	0.0	0.0	18.3
5	CROP	ASGROW AG55XFO			150000	seeds/a		105	37.0	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.00	pt/a	A	202	39.0	0.0	0.0	0.0	0.0
								305	43.0	0.0	0.0	0.0	0.0
								Mean =	39.7	0.0	0.0	0.0	0.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	39.0	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	201	42.0	0.0	0.0	0.0	0.0
								312	40.0	0.0	0.0	0.0	0.0
								Mean =	40.3	0.0	0.0	0.0	0.0
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	39.0	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	206	42.0	0.0	0.0	0.0	0.0
								302	35.0	0.0	0.0	0.0	0.0
								Mean =	38.7	0.0	0.0	0.0	0.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	42.0	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	2	pt/a	A	212	39.0	0.0	0.0	0.0	0.0
								301	42.0	0.0	0.0	0.0	0.0
								Mean =	41.0	0.0	0.0	0.0	0.0
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	44.0	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	2.25	pt/a	A	208	41.0	0.0	0.0	0.0	0.0
								311	43.0	0.0	0.0	0.0	0.0
								Mean =	42.7	0.0	0.0	0.0	0.0
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	41.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	211	45.0	0.0	0.0	0.0	0.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	309	41.0	0.0	0.0	0.0	0.0
								Mean =	42.3	0.0	0.0	0.0	3.3
11	CROP	ASGROW AG55FXO			150000	seeds/a		111	38.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	207	40.0	0.0	0.0	0.0	15.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	313	41.0	0.0	0.0	0.0	15.0
								Mean =	39.7	0.0	0.0	0.0	13.3
12	CROP	ASGROW AG55XFO			150000	seeds/a		112	36.0	0.0	0.0	0.0	15.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	203	37.0	0.0	0.0	0.0	20.0
	HERB	Lorox FL	4	F	2	pt/a	A	310	33.0	0.0	0.0	0.0	15.0
								Mean =	35.3	0.0	0.0	0.0	16.7
13		NTC						113	38.0	0.0	0.0	0.0	0.0
								210	37.0	0.0	0.0	0.0	0.0
								308	43.0	0.0	0.0	0.0	0.0
								Mean =	39.3	0.0	0.0	0.0	0.0

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Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	Amapa May-18-21 Control %, 0, 100 May-18-21 19	Rapra May-18-21 Control %, 0, 100 May-18-21 20	Agrass May-18-21 Control %, 0, 100 May-18-21 21	Sprar May-18-21 Control %, 0, 100 May-18-21 22	Amapa Jun-11-21 Control %, 0, 100 Jun-11-21 23
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	85.0	0.0	95.0	65.0	75.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	205	99.0	50.0	85.0	65.0	99.0
								307	50.0	60.0	99.0	60.0	50.0
								Mean =	78.0	36.7	93.0	63.3	74.7
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	90.0	0.0	90.0	85.0	90.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	204	99.0	85.0	85.0	75.0	99.0
								306	75.0	85.0	95.0	65.0	50.0
								Mean =	88.0	56.7	90.0	75.0	79.7
3	CROP	ASGROW AG55XFO			150000	seeds/a		103	99.0	0.0	90.0	85.0	99.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	213	95.0	0.0	65.0	65.0	50.0
								304	95.0	0.0	85.0	85.0	80.0
								Mean =	96.3	0.0	80.0	78.3	76.3
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	99.0	65.0	95.0	85.0	99.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	95.0	50.0	99.0	90.0	90.0
								303	95.0	0.0	99.0	95.0	75.0
								Mean =	96.3	38.3	97.7	90.0	88.0
5	CROP	ASGROW AG55XFO			150000	seeds/a		105	85.0	85.0	50.0	75.0	85.0
	HERB	Lorox FL	4	F	1.00	pt/a	A	202	0.0	0.0	0.0	65.0	0.0
								305	0.0	99.0	0.0	99.0	50.0
								Mean =	28.3	61.3	16.7	79.7	45.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	80.0	60.0	60.0	95.0	65.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	201	0.0	0.0	0.0	65.0	50.0
								312	90.0	50.0	0.0	99.0	85.0
								Mean =	56.7	36.7	20.0	86.3	66.7
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	75.0	65.0	60.0	99.0	75.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	206	99.0	99.0	50.0	99.0	85.0
								302	0.0	65.0	0.0	99.0	50.0
								Mean =	58.0	76.3	36.7	99.0	70.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	95.0	90.0	65.0	99.0	80.0
	HERB	Lorox FL	4	F	2	pt/a	A	212	99.0	99.0	30.0	99.0	99.0
								301	0.0	85.0	0.0	99.0	50.0
								Mean =	64.7	91.3	31.7	99.0	76.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	99.0	85.0	65.0	99.0	99.0
	HERB	Lorox FL	4	F	2.25	pt/a	A	208	99.0	85.0	60.0	99.0	99.0
								311	75.0	99.0	20.0	99.0	65.0
								Mean =	91.0	89.7	48.3	99.0	87.7
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	99.0	75.0	99.0	99.0	95.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	211	99.0	99.0	65.0	95.0	99.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	309	99.0	50.0	95.0	99.0	85.0
								Mean =	99.0	74.7	86.3	97.7	93.0
11	CROP	ASGROW AG55FXO			150000	seeds/a		111	99.0	85.0	95.0	99.0	90.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	207	99.0	99.0	95.0	99.0	90.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	313	99.0	90.0	90.0	95.0	85.0
								Mean =	99.0	91.3	93.3	97.7	88.3
12	CROP	ASGROW AG55XFO			150000	seeds/a		112	99.0	95.0	95.0	99.0	99.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	203	99.0	99.0	90.0	99.0	99.0
	HERB	Lorox FL	4	F	2	pt/a	A	310	95.0	99.0	99.0	99.0	70.0
								Mean =	97.7	97.7	94.7	99.0	89.3
13		NTC						113	0.0	0.0	0.0	0.0	0.0
								210	0.0	0.0	0.0	0.0	0.0
								308	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

University of Georgia

Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	Rapra Jun-11-21 Control %, 0, 100 Jun-11-21 24	Agrass Jun-11-21 Control %, 0, 100 Jun-11-21 25
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	0.0	85.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	205	0.0	65.0
								307	0.0	75.0
								Mean =	0.0	75.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	0.0	65.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	204	75.0	65.0
								306	95.0	65.0
								Mean =	56.7	65.0
3	CROP	ASGROW AG55XFO			150000	seeds/a		103	0.0	60.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	213	0.0	50.0
								304	0.0	80.0
								Mean =	0.0	63.3
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	75.0	95.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	50.0	90.0
								303	0.0	90.0
								Mean =	41.7	91.7
5	CROP	ASGROW AG55XFO			150000	seeds/a		105	50.0	0.0
	HERB	Lorox FL	4	F	1.00	pt/a	A	202	0.0	0.0
								305	99.0	0.0
								Mean =	49.7	0.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	50.0	0.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	201	0.0	0.0
								312	50.0	0.0
								Mean =	33.3	0.0
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	50.0	0.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	206	99.0	0.0
								302	50.0	0.0
								Mean =	66.3	0.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	65.0	30.0
	HERB	Lorox FL	4	F	2	pt/a	A	212	85.0	10.0
								301	50.0	0.0
								Mean =	66.7	13.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	85.0	50.0
	HERB	Lorox FL	4	F	2.25	pt/a	A	208	85.0	30.0
								311	99.0	0.0
								Mean =	89.7	26.7
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	30.0	85.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	211	85.0	20.0
	HERB	Lorox FL	4	F	1.25	pt/a	A	309	0.0	80.0
								Mean =	38.3	61.7
11	CROP	ASGROW AG55FXO			150000	seeds/a		111	85.0	85.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	207	99.0	85.0
	HERB	Lorox FL	4	F	1.5	pt/a	A	313	50.0	60.0
								Mean =	78.0	76.7
12	CROP	ASGROW AG55XFO			150000	seeds/a		112	85.0	90.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	203	99.0	65.0
	HERB	Lorox FL	4	F	2	pt/a	A	310	99.0	80.0
								Mean =	94.3	78.3
13		NTC						113	0.0	0.0
								210	0.0	0.0
								308	0.0	0.0
								Mean =	0.0	0.0

University of Georgia

Preemergence Tolerance and Efficacy of S-metalochlor and Linuron

Trial ID: SB-03-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Crop Type, Code
C = EPPO species (Bayer) codes
Rating Unit/Min/Max
%, 0, 100 = percent