University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	203	309
	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	212	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 AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	103	210	307
	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 AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	105	207	310
	HERB	Valor SX	51	DF	1	oz wt/a	A	1.5 L	0.7489 g/mx	1499.3 mL			
6	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	106	201	312
	HERB	Valor SX	51	DF	2	oz wt/a	A	1.5 L	1.498 g/mx	1498.5 mL			
7	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	107	205	304
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	1.5 L	1.872 g/mx	1498.1 mL			
8	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	108	211	305
	HERB	Valor SX	51	DF	3	oz wt/a	A	1.5 L	2.247 g/mx	1497.8 mL			
9	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	109	202	311
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	1.5 L	16.62 mL/mx	1482.6 mL			
	HERB	Valor SX	51	DF	1	oz wt/a	A	1.5 L	0.7489 g/mx				
10	CROP	ASGROW AG55FXO			150000	seeds/a		-	**517 seeds/1 pl**	-	110	206	302
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	1.5 L	20.87 mL/mx	1477.6 mL			
	HERB	Valor SX	51	DF	2	oz wt/a	A	1.5 L	1.498 g/mx				
11	CROP	ASGROW AG55FXO			150000	oz wt/a		1.5 L		-	111	208	301
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	1.5 L	31.25 mL/mx	1466.9 mL			
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	1.5 L	1.872 g/mx				
12		NTC								-	112	204	308

Sort Order: Treatment

Trial Comments

SUMMARY:

1) SOYBEAN STAND/DENSITY WAS SIGNIFICANTLY REDUCED BY VALOR @ 3 OZ/A.

2) ON MAY 18 (28 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:

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

B) TREATMENTS THAT RESULTED IN >10% GROWTH INHIBITION/STUNTING WERE AS FOLLOWS:

DUAL MAGNUM @ 2.5 PT/A (13%)
DUAL MAGNUM @ 1.67 PT/A + VALOR @ 2 OZ/A (12%)
DUAL MAGNUM @ 2.5 PT/A + VALOR @ 2.5 OZ/A (23%)

C) PALMER AMARANTH CONTROL WITH ALL TREATMENTS EXCEEDED 97%.

D) DUAL MAGNUM PROVIDED POOR CONTROL OF WILD RADISH (< 17%).

E) WILD RADISH CONTROL WITH VALOR EXCEEDED 82%.

F) ANNUAL GRASS CONTROL EXCEEDED 80% WITH ALL TREATMENTS EXCEPT VALOR @ 1 OZ/A AND 2 OZ/A (61-68%).

G) CORN SPURRY CONTROL EXCEEDED 89% WITH ALL TREATMENTS EXCEPT DUAL MAGNUM @ 1.33 PT/A AND 1.67 PT/A (66-68%).

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Project ID: Study Director: Bob Montgomery
Sponsor Contact:

University of Georgia

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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: 31.5068485, -83.6581002
LR CORNER: 31.5068895, -83.658314
UL CORNER: 31.5065943, -83.658179
UR CORNER: 31.5066493, -83.658389

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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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 P. 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:** _____
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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Sponsor Contact:

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:** 12 **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.	PEANUT				2020		

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
ACCELERON 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:** _
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
06/06:0.5" IRRIGATION

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Trial ID: SB-02-21 Location: Trial Year: 2020
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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	Apr-19-21
Air Temperature Start, Stop	, 57 F
% Relative Humidity Start, Stop	83,
Wind Velocity+Dir. Start	0 MPH,
Wind Velocity+Dir. Stop	,
Wind Velocity+Dir. Max	,
Wet Leaves (Y/N)	,
Soil Temperature	64 F
Soil Moisture	OPTIMUM
Soil Surface Condition	
% 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 Application 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	0.0 a	0.0 a	3.3 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	1.7 de	99.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 a	3.3 cde	99.0 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	3.3 a	5.0 bcd	99.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 a	3.3 cde	99.0 a
	HERB	Valor SX	51	DF	1	oz wt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 a	6.7 bc	99.0 a
	HERB	Valor SX	51	DF	2	oz wt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	3.3 a	5.0 bcd	99.0 a
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 a	8.3 ab	99.0 a
	HERB	Valor SX	51	DF	3	oz wt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 a	6.7 bc	99.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Valor SX	51	DF	1	oz wt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		1.7 a	0.0 a	3.3 a	8.3 ab	99.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Valor SX	51	DF	2	oz wt/a	A					
11	CROP	ASGROW AG55FXO			150000	oz wt/a		0.0 a	0.0 a	1.7 a	11.7 a	99.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
12		NTC						0.0 a	0.0 a	0.0 a	0.0 e	0.0 b
LSD P=.10								1.17	.	3.32	4.55	.
Standard Deviation								0.83	0.00	2.37	3.25	0.00
CV								600.0	0.0	155.15	61.52	0.0
Grand Mean								0.14	0.00	1.53	5.28	90.75
Bartlett's X2^								40.623	.	7.609	11.213	.
P(Bartlett's X2)								0.00*	.	0.748	0.426	.

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=8
Could not calculate LSD (% mean diff) for columns 2,5,16,17 because error mean square = 0.
^Calculated from residual.

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Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Agrass May-3-21 Control %, 0, 100 May-3-21 6	Rapra May-3-21 Control %, 0, 100 May-3-21 7	Sprar May-3-21 Control %, 0, 100 May-3-21 8	C, GLYMA May-3-21 Stand #/5 ft, -, - May-3-21 9	C, GLYMA May-11-21 Chlorosis %, 0, 100 May-11-21 10
1	CROP	ASGROW AG55FXO			150000	seeds/a		96.3 ab	10.0 b	99.0 a	39.0 bc	0.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		97.7 ab	0.0 b	97.7 b	40.3 ab	1.7 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55FXO			150000	seeds/a		96.3 ab	16.7 b	99.0 a	41.7 ab	1.7 a
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		89.7 ab	21.7 b	99.0 a	41.3 ab	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55FXO			150000	seeds/a		88.3 b	78.0 a	99.0 a	37.0 cd	0.0 a
	HERB	Valor SX	51	DF	1	oz wt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		94.3 ab	93.0 a	99.0 a	39.7 abc	0.0 a
	HERB	Valor SX	51	DF	2	oz wt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		88.3 b	94.3 a	99.0 a	40.7 ab	0.0 a
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		99.0 a	99.0 a	99.0 a	36.0 d	0.0 a
	HERB	Valor SX	51	DF	3	oz wt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		87.7 b	93.0 a	99.0 a	41.0 ab	0.0 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Valor SX	51	DF	1	oz wt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		99.0 a	94.3 a	99.0 a	42.0 a	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Valor SX	51	DF	2	oz wt/a	A					
11	CROP	ASGROW AG55FXO			150000	oz wt/a		97.7 ab	99.0 a	99.0 a	40.3 ab	1.7 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
12		NTC						0.0 c	0.0 b	0.0 c	39.7 abc	0.0 a
LSD P=.10								10.14	24.09	0.96	2.77	2.02
Standard Deviation								7.24	17.18	0.68	1.97	1.44
CV								8.39	29.5	0.75	4.95	346.41
Grand Mean								86.19	58.25	90.64	39.89	0.42
Bartlett's X2^								23.559	28.663	.	6.22	29.92
P(Bartlett's X2)								0.015*	0.003*	.	0.858	0.002*

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=8
Could not calculate LSD (% mean diff) for columns 2,5,16,17 because error mean square = 0.
^Calculated from residual.

University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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 c	8.3 cd	38.3 c	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 c	10.0 bc	41.3 abc	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55FXO			150000	seeds/a		1.7 a	1.7 bc	11.7 bc	41.7 ab	0.0 a
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	5.0 ab	15.0 b	42.0 a	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 bc	6.7 cde	39.3 abc	0.0 a
	HERB	Valor SX	51	DF	1	oz wt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 c	1.7 ef	38.7 bc	0.0 a
	HERB	Valor SX	51	DF	2	oz wt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	1.7 bc	3.3 def	40.3 abc	0.0 a
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 c	8.3 cd	34.3 d	0.0 a
	HERB	Valor SX	51	DF	3	oz wt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 c	8.3 cd	41.0 abc	1.7 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Valor SX	51	DF	1	oz wt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	6.7 a	15.0 b	38.3 c	0.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Valor SX	51	DF	2	oz wt/a	A					
11	CROP	ASGROW AG55FXO			150000	oz wt/a		0.0 a	8.3 a	23.3 a	38.7 bc	0.0 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
12		NTC						0.0 a	0.0 c	0.0 f	40.7 abc	0.0 a
LSD P=.10								1.17	4.40	5.38	3.24	1.17
Standard Deviation								0.83	3.14	3.84	2.31	0.83
CV								600.0	150.64	41.22	5.85	600.0
Grand Mean								0.14	2.08	9.31	39.56	0.14
Bartlett's X2^								40.623	25.754	10.762	7.149	40.623
P(Bartlett's X2)								0.00*	0.007*	0.463	0.787	0.00*

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^Calculated from residual.

University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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						C, GLYMA	C, GLYMA	C, GLYMA	Amapa	Rapra
		Crop Type, Code						May-18-21	May-18-21	May-18-21		
		Rating Date						Necrosis	Malformatio	Groinhib	May-18-21	May-18-21
		Rating Type						%, 0, 100	%, 0, 100	%, 0, 100	Control	Control
		Rating Unit/Min/Max						May-18-21	May-18-21	May-18-21	%, 0, 100	%, 0, 100
		Data Entry Date									May-18-21	May-18-21
1	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 f	94.7 a	0.0 d
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	3.3 def	86.3 b	0.0 d
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	6.7 cde	97.7 a	0.0 d
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	13.3 b	99.0 a	16.7 c
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	1.7 ef	99.0 a	89.7 ab
	HERB	Valor SX	51	DF	1	oz wt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	3.3 def	99.0 a	83.0 b
	HERB	Valor SX	51	DF	2	oz wt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	0.0 f	99.0 a	94.3 ab
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	3.3 def	99.0 a	99.0 a
	HERB	Valor SX	51	DF	3	oz wt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	8.3 bcd	97.7 a	80.0 b
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Valor SX	51	DF	1	oz wt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		0.0 a	0.0 a	11.7 bc	99.0 a	91.7 ab
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Valor SX	51	DF	2	oz wt/a	A					
11	CROP	ASGROW AG55FXO			150000	oz wt/a		0.0 a	0.0 a	23.3 a	99.0 a	93.0 ab
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
12		NTC						0.0 a	0.0 a	0.0 f	0.0 c	0.0 d
LSD P=.10								.	.	5.95	5.24	14.98
Standard Deviation								0.00	0.00	4.24	3.74	10.69
CV								0.0	0.0	67.87	4.19	19.81
Grand Mean								0.00	0.00	6.25	89.11	53.94
Bartlett's X2^								.	.	23.578	26.264	11.849
P(Bartlett's X2)								.	.	0.015*	0.006*	0.375

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^Calculated from residual.

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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		94.7 a	66.7 c	85.0 b	0.0 d	86.7 a
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
2	CROP	ASGROW AG55FXO			150000	seeds/a		93.0 ab	68.3 c	66.3 c	0.0 d	78.3 abc
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
3	CROP	ASGROW AG55FXO			150000	seeds/a		89.7 ab	89.7 b	90.0 ab	10.0 d	83.0 ab
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A					
4	CROP	ASGROW AG55FXO			150000	seeds/a		83.0 b	97.7 a	96.0 ab	16.7 d	71.3 a-d
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
5	CROP	ASGROW AG55FXO			150000	seeds/a		61.7 c	99.0 a	99.0 a	54.7 c	23.3 f
	HERB	Valor SX	51	DF	1	oz wt/a	A					
6	CROP	ASGROW AG55FXO			150000	seeds/a		68.3 c	99.0 a	96.0 ab	61.3 bc	46.7 e
	HERB	Valor SX	51	DF	2	oz wt/a	A					
7	CROP	ASGROW AG55FXO			150000	seeds/a		83.0 b	99.0 a	99.0 a	94.3 ab	60.0 cde
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
8	CROP	ASGROW AG55FXO			150000	seeds/a		83.3 ab	99.0 a	99.0 a	99.0 a	63.3 b-e
	HERB	Valor SX	51	DF	3	oz wt/a	A					
9	CROP	ASGROW AG55FXO			150000	seeds/a		85.0 ab	97.7 a	94.3 ab	58.3 bc	56.7 de
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A					
	HERB	Valor SX	51	DF	1	oz wt/a	A					
10	CROP	ASGROW AG55FXO			150000	seeds/a		93.0 ab	99.0 a	97.7 ab	73.3 abc	85.0 a
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A					
	HERB	Valor SX	51	DF	2	oz wt/a	A					
11	CROP	ASGROW AG55FXO			150000	oz wt/a		94.7 a	99.0 a	97.7 ab	61.3 bc	86.3 a
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A					
	HERB	Valor SX	51	DF	2.5	oz wt/a	A					
12		NTC						0.0 d	0.0 d	0.0 d	0.0 d	0.0 g
LSD P=.10								11.37	6.39	13.03	36.61	21.53
Standard Deviation								8.11	4.56	9.29	26.11	15.36
CV								10.47	5.39	10.93	59.24	24.88
Grand Mean								77.44	84.50	85.00	44.08	61.72
Bartlett's X2^								10.587	29.991	26.519	16.178	10.498
P(Bartlett's X2)								0.479	0.002*	0.005*	0.135	0.486

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^Calculated from residual.

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	35	24.305556			
Replicate	2	1.388889	0.694444	1.000	0.3840
Treatment	11	7.638889	0.694444	1.000	0.4767
Error	22	15.277778	0.694444		

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	35	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	22	0.000000000000	0.000000000000		

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	35	240.972222			
Replicate	2	59.722222	29.861111	5.315	0.0131
Treatment	11	57.638889	5.239899	0.933	0.5289
Error	22	123.611111	5.618687		

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	35	597.222222			
Replicate	2	18.055556	9.027778	0.856	0.4384
Treatment	11	347.222222	31.565657	2.994	0.0137
Error	22	231.944444	10.542929		

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	35	26952.750000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	11	26952.750000	2450.250000	0.000	1.0000
Error	22	0.000000	0.000000		

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	26355.638889			
Replicate	2	256.222222	128.111111	2.447	0.1098
Treatment	11	24947.638889	2267.967172	43.320	0.0001
Error	22	1151.777778	52.353535		

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	35	69562.750000			
Replicate	2	330.666667	165.333333	0.560	0.5792
Treatment	11	62736.083333	5703.280303	19.315	0.0001
Error	22	6496.000000	295.272727		

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	34	26902.305556			
Replicate	2	0.888889	0.444444	0.955	0.4011
Treatment	11	26891.638889	2444.694444	5250.537	0.0001
Error	21	9.777778	0.465608		

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	195.555556			
Replicate	2	1.055556	0.527778	0.136	0.8739
Treatment	11	108.888889	9.898990	2.544	0.0300
Error	22	85.611111	3.891414		

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	35	68.750000			
Replicate	2	4.166667	2.083333	1.000	0.3840
Treatment	11	18.750000	1.704545	0.818	0.6237
Error	22	45.833333	2.083333		

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	35	24.305556			
Replicate	2	1.388889	0.694444	1.000	0.3840
Treatment	11	7.638889	0.694444	1.000	0.4767
Error	22	15.277778	0.694444		

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	35	518.750000			
Replicate	2	16.666667	8.333333	0.846	0.4426
Treatment	11	285.416667	25.946970	2.635	0.0255
Error	22	216.666667	9.848485		

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	35	1757.638889			
Replicate	2	59.722222	29.861111	2.030	0.1552
Treatment	11	1374.305556	124.936869	8.494	0.0001
Error	22	323.611111	14.709596		

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	35	286.888889			
Replicate	2	21.055556	10.527778	1.969	0.1634
Treatment	11	148.222222	13.474747	2.521	0.0312
Error	22	117.611111	5.345960		

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	35	24.305556			
Replicate	2	1.388889	0.694444	1.000	0.3840
Treatment	11	7.638889	0.694444	1.000	0.4767
Error	22	15.277778	0.694444		

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	35	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	22	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	35	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	22	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	35	2018.750000			
Replicate	2	4.166667	2.083333	0.116	0.8912
Treatment	11	1618.750000	147.159091	8.179	0.0001
Error	22	395.833333	17.992424		

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	35	26783.555556			
Replicate	2	45.722222	22.861111	1.639	0.2171
Treatment	11	26430.888889	2402.808081	172.219	0.0001
Error	22	306.944444	13.952020		

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	35	70397.888889			
Replicate	2	570.888889	285.444444	2.500	0.1051
Treatment	11	67315.222222	6119.565657	53.600	0.0001
Error	22	2511.777778	114.171717		

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	35	25816.888889			
Replicate	2	1241.722222	620.861111	9.444	0.0011
Treatment	11	23128.888889	2102.626263	31.984	0.0001
Error	22	1446.277778	65.739899		

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	35	28599.000000			
Replicate	2	78.166667	39.083333	1.881	0.1762
Treatment	11	28063.666667	2551.242424	122.772	0.0001
Error	22	457.166667	20.780303		

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	35	28570.000000			
Replicate	2	161.166667	80.583333	0.933	0.4083
Treatment	11	26509.333333	2409.939394	27.912	0.0001
Error	22	1899.500000	86.340909		

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	35	70022.750000			
Replicate	2	9871.166667	4935.583333	7.238	0.0038
Treatment	11	45150.083333	4104.553030	6.019	0.0002
Error	22	15001.500000	681.886364		

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	35	35031.222222			
Replicate	2	5447.722222	2723.861111	11.552	0.0004
Treatment	11	24395.888889	2217.808081	9.405	0.0001
Error	22	5187.611111	235.800505		

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

University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	0.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	203	0.0	0.0	0.0	10.0
								309	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	3.3
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	0.0	0.0	0.0	0.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	212	0.0	0.0	0.0	5.0
								306	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	1.7
3	CROP	ASGROW AG55FXO			150000	seeds/a		103	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	210	0.0	0.0	0.0	0.0
								307	0.0	0.0	5.0	5.0
								Mean =	0.0	0.0	1.7	3.3
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	0.0	0.0	0.0	5.0
								303	0.0	0.0	10.0	5.0
								Mean =	0.0	0.0	3.3	5.0
5	CROP	ASGROW AG55FXO			150000	seeds/a		105	0.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	207	0.0	0.0	0.0	5.0
								310	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	3.3
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	0.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	201	0.0	0.0	0.0	5.0
								312	0.0	0.0	5.0	10.0
								Mean =	0.0	0.0	1.7	6.7
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	0.0	0.0	5.0	5.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	205	0.0	0.0	0.0	5.0
								304	0.0	0.0	5.0	5.0
								Mean =	0.0	0.0	3.3	5.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	0.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	3	oz wt/a	A	211	0.0	0.0	5.0	15.0
								305	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	1.7	8.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	202	0.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	311	0.0	0.0	5.0	10.0
								Mean =	0.0	0.0	1.7	6.7
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	206	5.0	0.0	5.0	10.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	302	0.0	0.0	5.0	10.0
								Mean =	1.7	0.0	3.3	8.3
11	CROP	ASGROW AG55FXO			150000	oz wt/a		111	0.0	0.0	0.0	15.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	208	0.0	0.0	0.0	10.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	301	0.0	0.0	5.0	10.0
								Mean =	0.0	0.0	1.7	11.7
12		NTC						112	0.0	0.0	0.0	0.0
								204	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

University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	Agrass 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 Stand #/5 ft, -, - May-3-21
									5	6	7	8	9
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	99.0	99.0	0.0	99.0	40.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	203	99.0	95.0	0.0	99.0	39.0
								309	99.0	95.0	30.0	99.0	38.0
								Mean =	99.0	96.3	10.0	99.0	39.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	99.0	99.0	0.0	99.0	41.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	212	99.0	95.0	0.0	99.0	38.0
								306	99.0	99.0	0.0	95.0	42.0
								Mean =	99.0	97.7	0.0	97.7	40.3
3	CROP	ASGROW AG55FXO			150000	seeds/a		103	99.0	99.0	50.0	99.0	43.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	210	99.0	95.0	0.0	99.0	44.0
								307	99.0	95.0	0.0	99.0	38.0
								Mean =	99.0	96.3	16.7	99.0	41.7
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	99.0	99.0	0.0	99.0	42.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	99.0	85.0	0.0	99.0	40.0
								303	99.0	85.0	65.0	99.0	42.0
								Mean =	99.0	89.7	21.7	99.0	41.3
5	CROP	ASGROW AG55FXO			150000	seeds/a		105	99.0	85.0	99.0	99.0	35.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	207	99.0	85.0	85.0	99.0	38.0
								310	99.0	95.0	50.0	99.0	38.0
								Mean =	99.0	88.3	78.0	99.0	37.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	99.0	99.0	95.0	99.0	39.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	201	99.0	85.0	85.0	99.0	39.0
								312	99.0	99.0	99.0	99.0	41.0
								Mean =	99.0	94.3	93.0	99.0	39.7
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	99.0	95.0	85.0	99.0	41.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	205	99.0	95.0	99.0	99.0	40.0
								304	99.0	75.0	99.0	99.0	41.0
								Mean =	99.0	88.3	94.3	99.0	40.7
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	99.0	99.0	99.0	99.0	36.0
	HERB	Valor SX	51	DF	3	oz wt/a	A	211	99.0	99.0	99.0	99.0	34.0
								305	99.0	99.0	99.0	99.0	38.0
								Mean =	99.0	99.0	99.0	99.0	36.0
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	99.0	99.0	95.0	99.0	41.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	202	99.0	65.0	85.0	99.0	40.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	311	99.0	99.0	99.0	99.0	42.0
								Mean =	99.0	87.7	93.0	99.0	41.0
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	99.0	99.0	85.0	99.0	41.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	206	99.0	99.0	99.0	99.0	44.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	302	99.0	99.0	99.0	99.0	41.0
								Mean =	99.0	99.0	94.3	99.0	42.0
11	CROP	ASGROW AG55FXO			150000	oz wt/a		111	99.0	99.0	99.0	99.0	41.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	208	99.0	95.0	99.0		42.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	301	99.0	99.0	99.0	99.0	38.0
								Mean =	99.0	97.7	99.0	99.0	40.3
12		NTC						112	0.0	0.0	0.0	0.0	39.0
								204	0.0	0.0	0.0	0.0	43.0
								308	0.0	0.0	0.0	0.0	37.0
								Mean =	0.0	0.0	0.0	0.0	39.7

University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	203	0.0	0.0	0.0	10.0
								309	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	8.3
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	212	5.0	0.0	0.0	15.0
								306	0.0	0.0	0.0	5.0
								Mean =	1.7	0.0	0.0	10.0
3	CROP	ASGROW AG55FXO			150000	seeds/a		103	0.0	0.0	0.0	15.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	210	5.0	5.0	5.0	15.0
								307	0.0	0.0	0.0	5.0
								Mean =	1.7	1.7	1.7	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	10.0	15.0
								303	0.0	0.0	5.0	15.0
								Mean =	0.0	0.0	5.0	15.0
5	CROP	ASGROW AG55FXO			150000	seeds/a		105	0.0	0.0	0.0	15.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	207	0.0	0.0	5.0	5.0
								310	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	1.7	6.7
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	0.0	0.0	0.0	0.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	201	0.0	0.0	0.0	0.0
								312	0.0	0.0	0.0	5.0
								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	Valor SX	51	DF	2.5	oz wt/a	A	205	0.0	0.0	5.0	5.0
								304	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	Valor SX	51	DF	3	oz wt/a	A	211	0.0	0.0	0.0	15.0
								305	0.0	0.0	0.0	5.0
								Mean =	0.0	0.0	0.0	8.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	202	0.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	311	0.0	0.0	0.0	10.0
								Mean =	0.0	0.0	0.0	8.3
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	0.0	0.0	5.0	15.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	206	0.0	0.0	10.0	15.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	302	0.0	0.0	5.0	15.0
								Mean =	0.0	0.0	6.7	15.0
11	CROP	ASGROW AG55FXO			150000	oz wt/a		111	0.0	0.0	10.0	25.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	208	0.0	0.0	0.0	20.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	301	5.0	0.0	15.0	25.0
								Mean =	1.7	0.0	8.3	23.3
12		NTC						112	0.0	0.0	0.0	0.0
								204	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

University of Georgia

Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 Location: Trial Year: 2020
Protocol ID: Investigator (Creator): Eric P. Prostko
Project ID: Study Director: Bob Montgomery
Sponsor Contact:

Trt No.	Treatment Type	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
									14	15	16	17	18
1	CROP	ASGROW AG55FXO			150000	seeds/a		101	37.0	0.0	0.0	0.0	0.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	203	38.0	0.0	0.0	0.0	0.0
								309	40.0	0.0	0.0	0.0	0.0
								Mean =	38.3	0.0	0.0	0.0	0.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	42.0	0.0	0.0	0.0	5.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	212	41.0	0.0	0.0	0.0	5.0
								306	41.0	0.0	0.0	0.0	0.0
								Mean =	41.3	0.0	0.0	0.0	3.3
3	CROP	ASGROW AG55FXO			150000	seeds/a		103	40.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	210	44.0	0.0	0.0	0.0	10.0
								307	41.0	0.0	0.0	0.0	0.0
								Mean =	41.7	0.0	0.0	0.0	6.7
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	43.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	42.0	0.0	0.0	0.0	15.0
								303	41.0	0.0	0.0	0.0	15.0
								Mean =	42.0	0.0	0.0	0.0	13.3
5	CROP	ASGROW AG55FXO			150000	seeds/a		105	39.0	0.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	207	40.0	0.0	0.0	0.0	0.0
								310	39.0	0.0	0.0	0.0	0.0
								Mean =	39.3	0.0	0.0	0.0	1.7
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	36.0	0.0	0.0	0.0	0.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	201	38.0	0.0	0.0	0.0	0.0
								312	42.0	0.0	0.0	0.0	10.0
								Mean =	38.7	0.0	0.0	0.0	3.3
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	39.0	0.0	0.0	0.0	0.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	205	40.0	0.0	0.0	0.0	0.0
								304	42.0	0.0	0.0	0.0	0.0
								Mean =	40.3	0.0	0.0	0.0	0.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	34.0	0.0	0.0	0.0	0.0
	HERB	Valor SX	51	DF	3	oz wt/a	A	211	31.0	0.0	0.0	0.0	10.0
								305	38.0	0.0	0.0	0.0	0.0
								Mean =	34.3	0.0	0.0	0.0	3.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	43.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	202	36.0	5.0	0.0	0.0	5.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	311	44.0	0.0	0.0	0.0	10.0
								Mean =	41.0	1.7	0.0	0.0	8.3
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	39.0	0.0	0.0	0.0	10.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	206	36.0	0.0	0.0	0.0	10.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	302	40.0	0.0	0.0	0.0	15.0
								Mean =	38.3	0.0	0.0	0.0	11.7
11	CROP	ASGROW AG55FXO			150000	oz wt/a		111	42.0	0.0	0.0	0.0	30.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	208	37.0	0.0	0.0	0.0	15.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	301	37.0	0.0	0.0	0.0	25.0
								Mean =	38.7	0.0	0.0	0.0	23.3
12		NTC						112	38.0	0.0	0.0	0.0	0.0
								204	42.0	0.0	0.0	0.0	0.0
								308	42.0	0.0	0.0	0.0	0.0
								Mean =	40.7	0.0	0.0	0.0	0.0

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	99.0	0.0	99.0	65.0	90.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	203	95.0	0.0	95.0	60.0	75.0
								309	90.0	0.0	90.0	75.0	90.0
								Mean =	94.7	0.0	94.7	66.7	85.0
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	99.0	0.0	99.0	65.0	99.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	212	85.0	0.0	90.0	75.0	50.0
								306	75.0	0.0	90.0	65.0	50.0
								Mean =	86.3	0.0	93.0	68.3	66.3
3	CROP	ASGROW AG55FXO			150000	seeds/a		103	99.0	0.0	99.0	75.0	95.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	210	99.0	0.0	75.0	99.0	85.0
								307	95.0	0.0	95.0	95.0	90.0
								Mean =	97.7	0.0	89.7	89.7	90.0
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	99.0	0.0	99.0	95.0	99.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	99.0	0.0	65.0	99.0	99.0
								303	99.0	50.0	85.0	99.0	90.0
								Mean =	99.0	16.7	83.0	97.7	96.0
5	CROP	ASGROW AG55FXO			150000	seeds/a		105	99.0	99.0	75.0	99.0	99.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	207	99.0	85.0	60.0	99.0	99.0
								310	99.0	85.0	50.0	99.0	99.0
								Mean =	99.0	89.7	61.7	99.0	99.0
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	99.0	85.0	75.0	99.0	99.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	201	99.0	65.0	65.0	99.0	90.0
								312	99.0	99.0	65.0	99.0	99.0
								Mean =	99.0	83.0	68.3	99.0	96.0
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	99.0	85.0	99.0	99.0	99.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	205	99.0	99.0	85.0	99.0	99.0
								304	99.0	99.0	65.0	99.0	99.0
								Mean =	99.0	94.3	83.0	99.0	99.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	99.0	99.0	95.0	99.0	99.0
	HERB	Valor SX	51	DF	3	oz wt/a	A	211	99.0	99.0	75.0	99.0	99.0
								305	99.0	99.0	80.0	99.0	99.0
								Mean =	99.0	99.0	83.3	99.0	99.0
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	95.0	80.0	90.0	95.0	85.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	202	99.0	65.0	70.0	99.0	99.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	311	99.0	95.0	95.0	99.0	99.0
								Mean =	97.7	80.0	85.0	97.7	94.3
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	99.0	85.0	95.0	99.0	95.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	206	99.0	95.0	85.0	99.0	99.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	302	99.0	95.0	99.0	99.0	99.0
								Mean =	99.0	91.7	93.0	99.0	97.7
11	CROP	ASGROW AG55FXO			150000	oz wt/a		111	99.0	99.0	99.0	99.0	95.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	208	99.0	90.0	90.0	99.0	99.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	301	99.0	90.0	95.0	99.0	99.0
								Mean =	99.0	93.0	94.7	99.0	97.7
12		NTC						112	0.0	0.0	0.0	0.0	0.0
								204	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

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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	95.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	203	0.0	85.0
								309	0.0	80.0
								Mean =	0.0	86.7
2	CROP	ASGROW AG55FXO			150000	seeds/a		102	0.0	95.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	212	0.0	75.0
								306	0.0	65.0
								Mean =	0.0	78.3
3	CROP	ASGROW AG55FXO			150000	seeds/a		103	30.0	99.0
	HERB	Dual Magnum	7.64	EC	2.0	pt/a	A	210	0.0	65.0
								307	0.0	85.0
								Mean =	10.0	83.0
4	CROP	ASGROW AG55FXO			150000	seeds/a		104	0.0	99.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	209	0.0	50.0
								303	50.0	65.0
								Mean =	16.7	71.3
5	CROP	ASGROW AG55FXO			150000	seeds/a		105	99.0	50.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	207	0.0	20.0
								310	65.0	0.0
								Mean =	54.7	23.3
6	CROP	ASGROW AG55FXO			150000	seeds/a		106	85.0	80.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	201	0.0	30.0
								312	99.0	30.0
								Mean =	61.3	46.7
7	CROP	ASGROW AG55FXO			150000	seeds/a		107	85.0	95.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	205	99.0	65.0
								304	99.0	20.0
								Mean =	94.3	60.0
8	CROP	ASGROW AG55FXO			150000	seeds/a		108	99.0	80.0
	HERB	Valor SX	51	DF	3	oz wt/a	A	211	99.0	50.0
								305	99.0	60.0
								Mean =	99.0	63.3
9	CROP	ASGROW AG55FXO			150000	seeds/a		109	85.0	65.0
	HERB	Dual Magnum	7.64	EC	1.33	pt/a	A	202	0.0	30.0
	HERB	Valor SX	51	DF	1	oz wt/a	A	311	90.0	75.0
								Mean =	58.3	56.7
10	CROP	ASGROW AG55FXO			150000	seeds/a		110	85.0	90.0
	HERB	Dual Magnum	7.64	EC	1.67	pt/a	A	206	50.0	75.0
	HERB	Valor SX	51	DF	2	oz wt/a	A	302	85.0	90.0
								Mean =	73.3	85.0
11	CROP	ASGROW AG55FXO			150000	oz wt/a		111	99.0	99.0
	HERB	Dual Magnum	7.64	EC	2.5	pt/a	A	208	0.0	65.0
	HERB	Valor SX	51	DF	2.5	oz wt/a	A	301	85.0	95.0
								Mean =	61.3	86.3
12		NTC						112	0.0	0.0
								204	0.0	0.0
								308	0.0	0.0
								Mean =	0.0	0.0

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Preemergence Tolerance and Efficacy of S-Metolachlor and Flumioxazin

Trial ID: SB-02-21 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