

University of Georgia

Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin		
Trial ID: SB-01-21	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.	Treatment Type	Form Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Mix Size	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3	
1	CROP ASGROW AG55FXO HERB Zidua SC		4.17 SC		150000 seeds/a 2.5 fl oz/a		A	- 1.5 L	517 seeds/1 pl 1.953 mL/mx	- 1498.0 mL	101	210	314	
2	CROP ASGROW AG55FXO HERB Zidua SC		4.17 SC		150000 seeds/a 3.75 fl oz/a		A	- 1.5 L	517 seeds/1 pl 2.93 mL/mx	- 1497.1 mL	102	213	305	
3	CROP ASGROW AG55FXO HERB Zidua SC		4.17 SC		150000 seeds/a 5.75 fl oz/a		A	- 1.5 L	517 seeds/1 pl 4.492 mL/mx	- 1495.5 mL	103	214	313	
4	CROP ASGROW AG55FXO HERB Zidua SC		4.17 SC		150000 seeds/a 7 fl oz/a		A	- 1.5 L	517 seeds/1 pl 5.469 mL/mx	- 1494.5 mL	104	203	302	
5	CROP ASGROW AG55FXO HERB Glory		75 DF		150000 seeds/a 0.333 lb/a		A	- 1.5 L	517 seeds/1 pl 3.99 g/mx	- 1496.0 mL	105	207	306	
6	CROP ASGROW AG55FXO HERB Glory		75 DF		150000 seeds/a 0.5 lb/a		A	- 1.5 L	517 seeds/1 pl 5.991 g/mx	- 1494.0 mL	106	205	308	
7	CROP ASGROW AG55FXO HERB Glory		75 DF		150000 seeds/a 0.66 lb/a		A	- 1.5 L	517 seeds/1 pl 7.909 g/mx	- 1492.1 mL	107	204	301	
8	CROP ASGROW AG55FXO HERB Glory		75 DF		150000 seeds/a 1.0 lb/a		A	- 1.5 L	517 seeds/1 pl 11.98 g/mx	- 1488.0 mL	108	209	307	
9	CROP ASGROW AG55FXO HERB Glory		75 DF		150000 seeds/a 1.25 lb/a		A	- 1.5 L	517 seeds/1 pl 14.98 g/mx	- 1485.0 mL	109	211	309	
10	CROP ASGROW AG55FXO HERB Zidua SC HERB Glory		4.17 SC 75 DF		150000 seeds/a 2 fl oz/a 0.333 lb/a		A A	- 1.5 L 1.5 L	517 seeds/1 pl 1.562 mL/mx 3.99 g/mx	- 1494.4 mL	110	212	310	
11	CROP ASGROW AG55FXO HERB Zidua SC HERB Glory		4.17 SC 75 DF		150000 seeds/a 2.5 fl oz/a 0.5 lb/a		A A	- 1.5 L 1.5 L	517 seeds/1 pl 1.953 mL/mx 5.991 g/mx	- 1492.1 mL	111	201	303	
12	CROP ASGROW AG55FXO HERB Zidua SC HERB Glory		4.17 SC 75 DF		150000 seeds/a 3.75 fl oz/a 0.66 lb/a		A A	- 1.5 L 1.5 L	517 seeds/1 pl 2.93 mL/mx 7.909 g/mx	- 1489.2 mL	112	206	311	
13	CROP ASGROW AG55FXO HERB Zidua SC HERB Glory		4.17 SC 75 DF		150000 seeds/a 5.75 fl oz/a 1.25 lb/a		A A	- 1.5 L 1.5 L	517 seeds/1 pl 4.492 mL/mx 14.98 g/mx	- 1480.5 mL	113	202	312	
14	NTC										-	114	208	304

Sort Order: Treatment

Trial Comments
<p><u>SUMMARY:</u></p> <p>1) SOYBEAN STAND/DENSITY WAS NOT REDUCED BY ANY PRE TREATMENT.</p> <p>2) FROM VISUAL RATINGS OBTAINED ON MAY 18 (28 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:</p> <p>A) SIGNIFICANT LEAF NECROSIS WAS OBSERVED FROM GLORY AT 1.0 AND 1.25 LB/A.</p> <p>B) SIGNIFICANT STUNTING/GROWTH INHIBITION WAS OBSERVED FROM ZIDUA @ 5.75 AND 7.0 OZ/A, GLORY @ 1.0 AND 1.25 LB/A, AND ZIDUA @ 5.75 OZ/A + GLORY @ 1.25 LB/A.</p> <p>C) PALMER AMARANTH CONTROL WAS 99% WITH ALL TREATMENTS EXCEPT ZIDUA @ 2.5 OZ/A (66%) AND GLORY @ 0.33 LB/A (58%) AND 0.66 LB/A (68%).</p> <p>D) WILD RADISH CONTROL WITH ZIDUA WAS RATE DEPENDANT BUT LESS THAN 62%.</p> <p>E) WILD RADISH CONTROL WITH GLORY EXCEEDED 94%.</p> <p>F) THE ONLY TREATMENTS THAT PROVIDED >90% CONTROL OF ANNUAL GRASSES WERE AS FOLLOWS:</p>

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ZIDUA @ 3.75 OZ/A AND 7.0 OZ/A
GLORY @ 1 LB/A
ZIDUA @ 5.75 OZ/A + GLORY @ 1.25 LB/A

G) CORN SPURRY CONTROL WITH ALL TREATMENTS WAS 99%.

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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 FOR TEST

LL CORNER : 31.5071077, -83.657990
 LR CORNER: 31.5071617, -83.658246
 UL CORNER: 31.5068678, -83.658078
 UR CORNER: 31.5069153, -83.658323

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 in of selected products alone and in tankmix in under varying soil types

Conclusions:

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Contacts		
<p>Role: STYDIR study director</p> <p>Study Director: Bob Montgomery</p> <p>Organization: ADAMA</p> <p>Address 1: 2211 North Old Troy Road</p> <p>Address 2: _____</p> <p>Country: USA United States</p> <p>City: Union City TN</p> <p>Role: INVEST investigator</p> <p>Investigator: Bob Montgomery</p> <p>Organization: _____</p> <p>Address 1: _____</p> <p>Address 2: _____</p> <p>Country: _____</p> <p>City: _____</p> <p>Role: SPONSR sponsor</p> <p>Sponsor: _____</p> <p>Organization: _____</p> <p>Address 1: _____</p> <p>Address 2: _____</p> <p>Country: _____</p> <p>City: _____</p> <p>Role: COOPER cooperator</p> <p>Cooperator: ERIC P. PROSTKO</p> <p>Organization: UNIVERSITY OOF GEORGIA</p> <p>Address 1: 104 RESEARCH WAY</p> <p>Address 2: _____</p> <p>Country: USA United States</p> <p>City: _____</p> <p>Role: _____</p> <p>Contact Name 5: _____</p> <p>Organization: _____</p> <p>Address 1: _____</p> <p>Address 2: _____</p> <p>Country: _____</p> <p>City: _____</p>	<p>Title: Contractor</p> <p>Org. Type: Company</p> <p>Phone No.: none Mobile No.: 731-225</p> <p>E-mail: bob.montgomery@adama.com</p> <p>State/Prov: TN Postal Code: 38261</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: _____</p> <p>E-mail: _____</p> <p>State/Prov: _____</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: _____</p> <p>E-mail: _____</p> <p>State/Prov: _____</p> <p>Title: PROFESSOR</p> <p>Org. Type: _____</p> <p>Phone No.: _____ Mobile _____</p> <p>E-mail: EPROSTKO@UGA.EDU</p> <p>State/Prov: GEORGIA Postal C _____</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: _____</p> <p>E-mail: _____</p> <p>State/Prov: _____</p>	

Crop Description		
<p>Crop 1: C GLXMA Glycine max Soybean</p> <p>Entry Date: Apr-19-21</p> <p>Variety: AG55FXO</p> <p>Attributes: _____</p> <p>Seed Shape: _____</p> <p>Perennial Age: _____</p> <p>Nursery Date: _____</p> <p>Planting Date: Apr-19-21</p> <p>Depth: 1.5 IN</p> <p>Rows per Plot: 2</p> <p>Row Spacing: 36 IN</p> <p>Spacing within Row: _____</p> <p>Soil Temperature: _____</p> <p>Emergence Date: _____</p> <p>Harvest Date: _____</p> <p>Moisture Meter: _____</p> <p>% Standard Moisture: _____</p> <p>Weighing Equipment: _____</p>	<p>Stage Scale: BBCH</p> <p>Seed Size: 2890 S/LB</p> <p>Planting Rate: 8 S/FT</p> <p>Planting Density: _____</p> <p>Planting Method: SEEDED seeded</p> <p>Planting Equipment: VP vacuum pl</p> <p>Seed Bed: _____</p> <p>Soil Moisture: OPTIMU</p> <p>Harvest Equipment: _____</p> <p>Harvested Width: _____</p> <p>Harvested Length: _____</p>	

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Pest Description			
Pest 1 Type: W	Code: AMAPA	Amaranthus palmeri	Entry Date: Apr
	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: Apr
	Common Name: TPANICUM/CRABGRASS/GOOSEGRASS/CROWFOOT		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 FT ²	Treatments: 14	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: G good

Soil Drainage: G good
 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 Wind
1.														
2.														
3.														
4.														
5.														
6.														
7.														

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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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-4-21
Air Temperature Start, Stop	57, F
% Relative Humidity Start, Stop	83,
Wind Velocity+Dir. Start	0 ,
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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	Trial Year: 2020

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 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 will allow during the normal recommended soybean planting season.
 If rainfall does not occur within 5 days after herbicide application trial should be irrigated activate herbicides.
 Herbicide application should be made within + or - 2 days of planting. 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 PRE 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 if 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 plot rows. Each row recorded separately.

Statistical Analysis:

RCB design mean separation

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Project ID:		Study Director: Bob Montgomery		
Sponsor Contact:				

Pest Name					C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA	Amapa		
Crop Type, Code					May-3-21	May-3-21	May-3-21	May-3-21	May-3-21		
Rating Date					Chlorosis	Necrosis	Malformatio	Growthreduc	Control		
Rating Type											
Data Entry Date					May-3-21	May-3-21	May-3-21	May-3-21	May-3-21		
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Appl Unit	Code	1	2	3	4	5
1	CROP ASGROW HERB Zidua SC	AG55XFO	4.17 SC	150000 seeds/a 2.5 fl oz/a	A		0.0 a	0.0 a	0.0 a	1.7 bc	99.0 a
2	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a 3.75 fl oz/a	A		0.0 a	0.0 a	0.0 a	5.0 ab	99.0 a
3	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a 5.75 fl oz/a	A		0.0 a	0.0 a	0.0 a	3.3 bc	99.0 a
4	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a 7 fl oz/a	A		0.0 a	0.0 a	0.0 a	5.0 ab	99.0 a
5	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a 0.333 lb/a	A		0.0 a	0.0 a	0.0 a	3.3 bc	99.0 a
6	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a 0.5 lb/a	A		0.0 a	0.0 a	0.0 a	1.7 bc	99.0 a
7	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a 0.66 lb/a	A		0.0 a	0.0 a	0.0 a	1.7 bc	99.0 a
8	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a 1.0 lb/a	A		0.0 a	0.0 a	0.0 a	3.3 bc	99.0 a
9	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a 1.25 lb/a	A		0.0 a	0.0 a	0.0 a	5.0 ab	99.0 a
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a 2 fl oz/a 0.333 lb/a	A A		0.0 a	0.0 a	0.0 a	5.0 ab	99.0 a
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a 2.5 fl oz/a 0.5 lb/a	A A		0.0 a	0.0 a	0.0 a	5.0 ab	99.0 a
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a 3.75 fl oz/a 0.66 lb/a	A A		0.0 a	0.0 a	0.0 a	3.3 bc	99.0 a
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a 5.75 fl oz/a 1.25 lb/a	A A		0.0 a	0.0 a	0.0 a	8.3 a	99.0 a
14	NTC						0.0 a	0.0 a	0.0 a	0.0 c	0.0 b
LSD P=.10							.	.	.	3.50	.
Standard Deviation							0.00	0.00	0.00	2.51	0.00
CV							0.0	0.0	0.0	68.11	0.0
Grand Mean							0.00	0.00	0.00	3.69	91.93
Bartlett's X2^							.	.	.	14.449	.
P(Bartlett's X2)							.	.	.	0.343	.

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 1,2,3,5,8,15,22 because error mean square = 0.
 ^Calculated from residual.

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Pest Name					Agrass	Rapra	Sprar	C, GLYMA	C, GLYMA	
Crop Type, Code					May-3-21	May-3-21	May-3-21	May-3-21	May-11-21	
Rating Date					Control	Control	Control	Stand	Chlorosis	
Rating Type					May-3-21	May-3-21	May-3-21	May-3-21	May-11-21	
Data Entry Date					6	7	8	9	10	
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code				
1	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 2.5 fl oz/a	51.7 c	A	0.0 c	99.0 a	38.7 a	0.0 a
2	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 3.75 fl oz/a	96.3 a	A	0.0 c	99.0 a	39.7 a	0.0 a
3	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 5.75 fl oz/a	94.3 ab	A	16.7 b	99.0 a	38.0 a	0.0 a
4	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 7 fl oz/a	96.3 a	A	16.7 b	99.0 a	42.0 a	0.0 a
5	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.333 lb/a	74.7 abc	A	94.7 a	99.0 a	40.3 a	0.0 a
6	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.5 lb/a	93.0 ab	A	99.0 a	99.0 a	42.0 a	0.0 a
7	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.66 lb/a	64.7 bc	A	94.7 a	99.0 a	40.3 a	0.0 a
8	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.0 lb/a	99.0 a	A	99.0 a	99.0 a	39.3 a	0.0 a
9	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.25 lb/a	86.3 ab	A	94.3 a	99.0 a	41.3 a	1.7 a
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2 fl oz/a 0.333 lb/a	88.0 ab	A	97.7 a	99.0 a	40.7 a	0.0 a
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2.5 fl oz/a 0.5 lb/a	89.7 ab	A	99.0 a	99.0 a	40.3 a	0.0 a
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 3.75 fl oz/a 0.66 lb/a	83.0 ab	A	99.0 a	99.0 a	40.3 a	0.0 a
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 5.75 fl oz/a 1.25 lb/a	99.0 a	A	99.0 a	99.0 a	40.3 a	0.0 a
14	NTC				0.0 d		0.0 c	0.0 b	38.7 a	0.0 a
LSD P=.10					29.82		14.57	.	3.05	1.07
Standard Deviation					21.41		10.46	0.00	2.19	0.77
CV					26.86		16.1	0.0	5.45	648.07
Grand Mean					79.71		64.98	91.93	40.14	0.12
Bartlett's X2^					30.418		25.345	.	7.945	52.232
P(Bartlett's X2)					0.004*		0.021*	.	0.847	0.00*

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 ^Calculated from residual.

University of Georgia

Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin				
Trial ID: SB-01-21		Location:		Trial Year: 2020
Protocol ID:		Investigator (Creator): Eric P. Prostko		
Project ID:		Study Director: Bob Montgomery		
Sponsor Contact:				

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					May-11-21	May-11-21	May-11-21	May-17-21	May-18-21		
Data Entry Date					11	12	13	14	15		
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Appl Unit	Code					
1	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 2.5 fl oz/a		A	0.0 d	0.0 a	1.7 de	41.0 a	0.0 a
2	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 3.75 fl oz/a		A	0.0 d	1.7 a	5.0 de	39.0 a	0.0 a
3	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 5.75 fl oz/a		A	0.0 d	0.0 a	11.7 bc	37.7 a	0.0 a
4	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 7 fl oz/a		A	0.0 d	0.0 a	20.0 a	39.7 a	0.0 a
5	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.333 lb/a		A	0.0 d	0.0 a	0.0 e	37.3 a	0.0 a
6	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.5 lb/a		A	0.0 d	0.0 a	3.3 de	40.7 a	0.0 a
7	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.66 lb/a		A	5.0 c	0.0 a	1.7 de	40.0 a	0.0 a
8	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.0 lb/a		A	20.0 b	0.0 a	3.3 de	40.3 a	0.0 a
9	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.25 lb/a		A	30.0 a	0.0 a	6.7 cd	43.3 a	0.0 a
10	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 2 fl oz/a		A	0.0 d	0.0 a	1.7 de	41.7 a	0.0 a
	HERB Glory			0.333 lb/a		A					
11	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 2.5 fl oz/a		A	1.7 d	0.0 a	5.0 de	39.3 a	0.0 a
	HERB Glory			0.5 lb/a		A					
12	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 3.75 fl oz/a		A	0.0 d	0.0 a	11.7 bc	40.0 a	0.0 a
	HERB Glory			0.66 lb/a		A					
13	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 5.75 fl oz/a		A	6.7 c	0.0 a	13.3 b	40.3 a	0.0 a
	HERB Glory			1.25 lb/a		A					
14	NTC						0.0 d	0.0 a	0.0 e	41.0 a	0.0 a
LSD P=.10					3.14		1.07		5.24	3.17	.
Standard Deviation					2.25		0.77		3.76	2.27	0.00
CV					49.83		648.07		61.95	5.67	0.0
Grand Mean					4.52		0.12		6.07	40.10	0.00
Bartlett's X2^					72.567		52.232		16.287	12.683	.
P(Bartlett's X2)					0.00*		0.00*		0.234	0.473	.

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 ^Calculated from residual.

University of Georgia

Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name					C, GLYMA	C, GLYMA	C, GLYMA	Amapa	Rapra		
Crop Type, Code					May-18-21	May-18-21	May-18-21	May-18-21	May-18-21		
Rating Date					Necrosis	Malformatio	Groinhib	Control	Control		
Rating Type					May-18-21	May-18-21	May-18-21	May-18-21	May-18-21		
Data Entry Date					16	17	18	19	20		
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Appl Unit	Code					
1	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 2.5 fl oz/a		A	0.0 c	0.0 a	0.0 e	66.0 ab	0.0 d
2	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 3.75 fl oz/a		A	0.0 c	0.0 a	6.7 cde	99.0 a	13.3 cd
3	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 5.75 fl oz/a		A	0.0 c	0.0 a	11.7 bc	99.0 a	23.3 c
4	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 7 fl oz/a		A	0.0 c	0.0 a	23.3 a	99.0 a	61.7 b
5	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.333 lb/a		A	0.0 c	0.0 a	3.3 de	58.3 b	89.7 a
6	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.5 lb/a		A	0.0 c	0.0 a	0.0 e	97.7 a	94.3 a
7	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.66 lb/a		A	1.7 c	0.0 a	0.0 e	67.7 ab	99.0 a
8	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.0 lb/a		A	13.3 b	0.0 a	6.7 cde	99.0 a	99.0 a
9	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.25 lb/a		A	26.7 a	0.0 a	11.7 bc	99.0 a	99.0 a
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2 fl oz/a 0.333 lb/a		A A	0.0 c	0.0 a	6.7 cde	99.0 a	97.7 a
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2.5 fl oz/a 0.5 lb/a		A A	0.0 c	0.0 a	5.0 cde	99.0 a	94.3 a
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 3.75 fl oz/a 0.66 lb/a		A A	0.0 c	1.7 a	8.3 cd	99.0 a	99.0 a
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 5.75 fl oz/a 1.25 lb/a		A A	3.3 c	0.0 a	18.3 ab	99.0 a	99.0 a
14	NTC						0.0 c	0.0 a	0.0 e	0.0 c	0.0 d
LSD P=.10					3.49		1.07	7.20	34.19	13.53	
Standard Deviation					2.50		0.77	5.17	24.55	9.72	
CV					77.92		648.07	71.21	29.11	14.03	
Grand Mean					3.21		0.12	7.26	84.33	69.24	
Bartlett's X2^					58.452		52.232	17.953	40.888	25.254	
P(Bartlett's X2)					0.00*		0.00*	0.159	0.00*	0.021*	

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 ^Calculated from residual.

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name					Agrass	Sprar	Amapa	Rapra	Agrass		
Crop Type, Code					May-18-21	May-18-21	Jun-11-21	Jun-11-21	Jun-11-21		
Rating Date					Control	Control	Control	Control	Control		
Rating Type					May-18-21	May-18-21	Jun-11-21	Jun-11-21	Jun-11-21		
Data Entry Date					21	22	23	24	25		
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Appl Unit	Code					
1	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 2.5 fl oz/a		A	16.7 de	99.0 a	74.7 b	0.0 d	26.7 de
2	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 3.75 fl oz/a		A	97.7 ab	99.0 a	82.7 ab	6.7 d	83.0 ab
3	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 5.75 fl oz/a		A	66.0 abc	99.0 a	97.7 ab	33.3 c	72.7 ab
4	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 7 fl oz/a		A	99.0 a	99.0 a	99.0 a	53.3 bc	86.0 ab
5	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.333 lb/a		A	28.3 cde	99.0 a	38.3 c	94.3 a	38.3 cd
6	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.5 lb/a		A	48.3 cd	99.0 a	83.0 ab	94.3 a	75.0 ab
7	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.66 lb/a		A	48.3 cd	99.0 a	94.3 ab	96.0 a	61.7 bc
8	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.0 lb/a		A	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
9	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.25 lb/a		A	59.7 abc	99.0 a	99.0 a	66.0 b	81.3 ab
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2 fl oz/a 0.333 lb/a		A A	56.7 bcd	99.0 a	93.0 ab	99.0 a	70.0 ab
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2.5 fl oz/a 0.5 lb/a		A A	48.3 cd	99.0 a	92.7 ab	91.0 a	71.7 ab
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 3.75 fl oz/a 0.66 lb/a		A A	49.7 cd	99.0 a	99.0 a	99.0 a	78.3 ab
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 5.75 fl oz/a 1.25 lb/a		A A	97.7 ab	99.0 a	99.0 a	99.0 a	93.0 ab
14	NTC						0.0 e	0.0 b	0.0 d	0.0 d	0.0 e
LSD P=.10					41.84	.	23.91	23.02	31.44		
Standard Deviation					30.04	0.00	17.17	16.53	22.57		
CV					51.58	0.0	20.88	24.86	33.74		
Grand Mean					58.24	91.93	82.24	66.50	66.90		
Bartlett's X2^					3.648	.	37.179	28.648	15.295		
P(Bartlett's X2)					0.994	.	0.00*	0.007*	0.289		

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 ^Calculated from residual.

University of Georgia

Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin		
Trial ID: SB-01-21	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 May-3-21 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000
Error	26	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Necrosis May-3-21 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000
Error	26	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Malformatio May-3-21 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000
Error	26	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Growthreduc May-3-21 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	352.976190			
Replicate	2	19.047619	9.523810	1.507	0.2402
Treatment	13	169.642857	13.049451	2.065	0.0560
Error	26	164.285714	6.318681		

Randomized Complete Block (RCB) AOV For Amapa May-3-21 Control May-3-21 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	27302.785714			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	13	27302.785714	2100.214286	0.000	1.0000
Error	26	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Agrass May-3-21 Control May-3-21 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	41258.571429			
Replicate	2	1433.714286	716.857143	1.564	0.2284
Treatment	13	27905.238095	2146.556777	4.682	0.0004
Error	26	11919.619048	458.446886		

Randomized Complete Block (RCB) AOV For Rapra May-3-21 Control May-3-21 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	84000.976190			
Replicate	2	711.047619	355.523810	3.249	0.0550
Treatment	13	80444.976190	6188.075092	56.553	0.0001
Error	26	2844.952381	109.421245		

Randomized Complete Block (RCB) AOV For Sprar May-3-21 Control May-3-21 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	27302.785714			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	13	27302.785714	2100.214286	0.000	1.0000
Error	26	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-3-21 Stand May-3-21 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	219.142857			
Replicate	2	39.000000	19.500000	4.078	0.0288
Treatment	13	55.809524	4.293040	0.898	0.5661
Error	26	124.333333	4.782051		

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Chlorosis May-11-21 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	24.404762			
Replicate	2	1.190476	0.595238	1.000	0.3816
Treatment	13	7.738095	0.595238	1.000	0.4786
Error	26	15.476190	0.595238		

University of Georgia

Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin

Trial ID: SB-01-21	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 May-11-21 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	3390.476190			
Replicate	2	1.190476	0.595238	0.117	0.8899
Treatment	13	3257.142857	250.549451	49.297	0.0001
Error	26	132.142857	5.082418		

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Malformatio May-11-21 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	24.404762			
Replicate	2	1.190476	0.595238	1.000	0.3816
Treatment	13	7.738095	0.595238	1.000	0.4786
Error	26	15.476190	0.595238		

Randomized Complete Block (RCB) AOV For C GLYMA May-11-21 Growthreduc May-11-21 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	1776.785714			
Replicate	2	32.142857	16.071429	1.136	0.3366
Treatment	13	1376.785714	105.906593	7.485	0.0001
Error	26	367.857143	14.148352		

Randomized Complete Block (RCB) AOV For C GLYMA May-17-21 Stand May-17-21 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	237.619048			
Replicate	2	11.476190	5.738095	1.109	0.3450
Treatment	13	91.619048	7.047619	1.362	0.2425
Error	26	134.523810	5.173993		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Chlorosis May-18-21 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000
Error	26	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Necrosis May-18-21 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	2441.071429			
Replicate	2	3.571429	1.785714	0.285	0.7546
Treatment	13	2274.404762	174.954212	27.891	0.0001
Error	26	163.095238	6.272894		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Malformatio May-18-21 (Data Column 17)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	24.404762			
Replicate	2	1.190476	0.595238	1.000	0.3816
Treatment	13	7.738095	0.595238	1.000	0.4786
Error	26	15.476190	0.595238		

Randomized Complete Block (RCB) AOV For C GLYMA May-18-21 Groinhib May-18-21 (Data Column 18)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	2860.119048			
Replicate	2	204.761905	102.380952	3.829	0.0349
Treatment	13	1960.119048	150.778388	5.639	0.0001
Error	26	695.238095	26.739927		

Randomized Complete Block (RCB) AOV For Amapa May-18-21 Control May-18-21 (Data Column 19)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	48379.333333			
Replicate	2	1158.333333	579.166667	0.961	0.3958
Treatment	13	31547.333333	2426.717949	4.026	0.0012
Error	26	15673.666667	602.833333		

Randomized Complete Block (RCB) AOV For Rapra May-18-21 Control May-18-21 (Data Column 20)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	68127.619048			
Replicate	2	297.476190	148.738095	1.575	0.2261
Treatment	13	65374.952381	5028.842491	53.254	0.0001
Error	26	2455.190476	94.430403		

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin

Trial ID: SB-01-21	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 May-18-21 (Data Column 21)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	41	80663.619048				
Replicate	2	18562.476190	9281.238095	10.284	0.0005	
Treatment	13	38636.952381	2972.073260	3.293	0.0047	
Error	26	23464.190476	902.468864			

Randomized Complete Block (RCB) AOV For Sprar May-18-21 Control May-18-21 (Data Column 22)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	41	27302.785714				
Replicate	2	0.000000	0.000000	0.000	1.0000	
Treatment	13	27302.785714	2100.214286	0.000	1.0000	
Error	26	0.000000	0.000000			

Randomized Complete Block (RCB) AOV For Amapa Jun-11-21 Control Jun-11-21 (Data Column 23)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	41	40275.619048				
Replicate	2	324.333333	162.166667	0.550	0.5834	
Treatment	13	32287.619048	2483.663004	8.426	0.0001	
Error	26	7663.666667	294.756410			

Randomized Complete Block (RCB) AOV For Rapra Jun-11-21 Control Jun-11-21 (Data Column 24)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	41	72462.500000				
Replicate	2	2528.714286	1264.357143	4.627	0.0191	
Treatment	13	62829.166667	4833.012821	17.687	0.0001	
Error	26	7104.619048	273.254579			

Randomized Complete Block (RCB) AOV For Agrass Jun-11-21 Control Jun-11-21 (Data Column 25)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	41	44457.619048				
Replicate	2	1976.333333	988.166667	1.939	0.1641	
Treatment	13	29230.952381	2248.534799	4.412	0.0006	
Error	26	13250.333333	509.628205			

Crop Type Code
 C = EPP0 species (Bayer) codes

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin			
Trial ID: SB-01-21	Location:	Trial Year: 2020	
Protocol ID:	Investigator (Creator): Eric P. Prostko		
Project ID:	Study Director: Bob Montgomery		
Sponsor Contact:			

Pest Name							C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA
Crop Type, Code							May-3-21	May-3-21	May-3-21	May-3-21
Rating Date							Chlorosis	Necrosis	Malformatio	Growthreduc
Rating Type							May-3-21	May-3-21	May-3-21	May-3-21
Data Entry Date										
Trt	Treatment	Form Form	Rate	Appl						
No.	Type	Name	Conc Type Rate	Unit	Code Plot	1	2	3	4	
1	CROP ASGROW	AG55XFO	150000 seeds/a	101		0.0	0.0	0.0	0.0	
	HERB Zidua	SC	2.5 fl oz/a	A 210		0.0	0.0	0.0	5.0	
				314		0.0	0.0	0.0	0.0	
				Mean =		0.0	0.0	0.0	1.7	
2	CROP ASGROW	AG55FXO	150000 seeds/a	102		0.0	0.0	0.0	0.0	
	HERB Zidua	SC	3.75 fl oz/a	A 213		0.0	0.0	0.0	10.0	
				305		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	5.0	
3	CROP ASGROW	AG55FXO	150000 seeds/a	103		0.0	0.0	0.0	5.0	
	HERB Zidua	SC	5.75 fl oz/a	A 214		0.0	0.0	0.0	0.0	
				313		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	3.3	
4	CROP ASGROW	AG55FXO	150000 seeds/a	104		0.0	0.0	0.0	5.0	
	HERB Zidua	SC	7 fl oz/a	A 203		0.0	0.0	0.0	5.0	
				302		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	5.0	
5	CROP ASGROW	AG55FXO	150000 seeds/a	105		0.0	0.0	0.0	5.0	
	HERB Glory	75 DF	0.333 lb/a	A 207		0.0	0.0	0.0	0.0	
				306		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	3.3	
6	CROP ASGROW	AG55FXO	150000 seeds/a	106		0.0	0.0	0.0	0.0	
	HERB Glory	75 DF	0.5 lb/a	A 205		0.0	0.0	0.0	5.0	
				308		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	0.0	
	HERB Glory	75 DF	0.66 lb/a	A 204		0.0	0.0	0.0	5.0	
				301		0.0	0.0	0.0	0.0	
				Mean =		0.0	0.0	0.0	1.7	
8	CROP ASGROW	AG55FXO	150000 seeds/a	108		0.0	0.0	0.0	0.0	
	HERB Glory	75 DF	1.0 lb/a	A 209		0.0	0.0	0.0	5.0	
				307		0.0	0.0	0.0	5.0	
				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 Glory	75 DF	1.25 lb/a	A 211		0.0	0.0	0.0	5.0	
				309		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	5.0	
10	CROP ASGROW	AG55FXO	150000 seeds/a	110		0.0	0.0	0.0	5.0	
	HERB Zidua	SC	2 fl oz/a	A 212		0.0	0.0	0.0	5.0	
	HERB Glory	75 DF	0.333 lb/a	A 310		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	5.0	
11	CROP ASGROW	AG55FXO	150000 seeds/a	111		0.0	0.0	0.0	5.0	
	HERB Zidua	SC	2.5 fl oz/a	A 201		0.0	0.0	0.0	5.0	
	HERB Glory	75 DF	0.5 lb/a	A 303		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	5.0	
12	CROP ASGROW	AG55FXO	150000 seeds/a	112		0.0	0.0	0.0	5.0	
	HERB Zidua	SC	3.75 fl oz/a	A 206		0.0	0.0	0.0	5.0	
	HERB Glory	75 DF	0.66 lb/a	A 311		0.0	0.0	0.0	0.0	
				Mean =		0.0	0.0	0.0	3.3	
13	CROP ASGROW	AG55FXO	150000 seeds/a	113		0.0	0.0	0.0	10.0	
	HERB Zidua	SC	5.75 fl oz/a	A 202		0.0	0.0	0.0	10.0	
	HERB Glory	75 DF	1.25 lb/a	A 312		0.0	0.0	0.0	5.0	
				Mean =		0.0	0.0	0.0	8.3	

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name						C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA
Crop Type, Code						May-3-21	May-3-21	May-3-21	May-3-21
Rating Date						Chlorosis	Necrosis	Malformatio	Growthreduc
Rating Type						May-3-21	May-3-21	May-3-21	May-3-21
Data Entry Date									
Trt	Treatment	Form	Form	Rate	Appl				
No.	Type	Name	Conc	Type	Rate	Unit	Code	Plot	
14	NTC						114	1	0.0
							208	2	0.0
							304	3	0.0
							Mean =	4	0.0

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin				
Trial ID: SB-01-21	Location:	Investigator (Creator): Eric P. Prostko		Trial Year: 2020
Protocol ID:	Study Director: Bob Montgomery			
Project ID:	Sponsor Contact:			

Pest Name							Amapa	Agrass	Rapra	Sprar	C, GLYMA
Crop Type, Code							May-3-21	May-3-21	May-3-21	May-3-21	May-3-21
Rating Date							Control	Control	Control	Control	Stand
Rating Type							May-3-21	May-3-21	May-3-21	May-3-21	May-3-21
Data Entry Date							Control	Control	Control	Control	Stand
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Appl Unit	Appl Code Plot	5	6	7	8	9
1	CROP ASGROW HERB Zidua SC	AG55XFO	4.17 SC	150000 seeds/a	2.5 fl oz/a	101	99.0	50.0	0.0	99.0	37.0
						210	99.0	85.0	0.0	99.0	40.0
						314	99.0	20.0	0.0	99.0	39.0
						Mean =	99.0	51.7	0.0	99.0	38.7
2	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a	3.75 fl oz/a	102	99.0	95.0	0.0	99.0	36.0
						213	99.0	95.0	0.0	99.0	39.0
						305	99.0	99.0	0.0	99.0	44.0
						Mean =	99.0	96.3	0.0	99.0	39.7
3	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a	5.75 fl oz/a	103	99.0	99.0	50.0	99.0	34.0
						214	99.0	85.0	0.0	99.0	40.0
						313	99.0	99.0	0.0	99.0	40.0
						Mean =	99.0	94.3	16.7	99.0	38.0
4	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a	7 fl oz/a	104	99.0	99.0	50.0	99.0	41.0
						203	99.0	95.0	0.0	99.0	40.0
						302	99.0	95.0	0.0	99.0	45.0
						Mean =	99.0	96.3	16.7	99.0	42.0
5	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	0.333 lb/a	105	99.0	95.0	99.0	99.0	40.0
						207	99.0	30.0	95.0	99.0	42.0
						306	99.0	99.0	90.0	99.0	39.0
						Mean =	99.0	74.7	94.7	99.0	40.3
6	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	0.5 lb/a	106	99.0	95.0	99.0	99.0	41.0
						205	99.0	99.0	99.0	99.0	44.0
						308	99.0	85.0	99.0	99.0	41.0
						Mean =	99.0	93.0	99.0	99.0	42.0
7	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	0.66 lb/a	107	99.0	99.0	99.0	99.0	36.0
						204	99.0	95.0	95.0	99.0	41.0
						301	99.0	0.0	90.0	99.0	44.0
						Mean =	99.0	64.7	94.7	99.0	40.3
8	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	1.0 lb/a	108	99.0	99.0	99.0	99.0	37.0
						209	99.0	99.0	99.0	99.0	39.0
						307	99.0	99.0	99.0	99.0	42.0
						Mean =	99.0	99.0	99.0	99.0	39.3
9	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	1.25 lb/a	109	99.0	99.0	99.0	99.0	42.0
						211	99.0	65.0	85.0	99.0	42.0
						309	99.0	95.0	99.0	99.0	40.0
						Mean =	99.0	86.3	94.3	99.0	41.3
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a	2 fl oz/a 0.333 lb/a	110	99.0	99.0	99.0	99.0	39.0
						212	99.0	75.0	95.0	99.0	43.0
						310	99.0	90.0	99.0	99.0	40.0
						Mean =	99.0	88.0	97.7	99.0	40.7
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a	2.5 fl oz/a 0.5 lb/a	111	99.0	99.0	99.0	99.0	43.0
						201	99.0	85.0	99.0	99.0	39.0
						303	99.0	85.0	99.0	99.0	39.0
						Mean =	99.0	89.7	99.0	99.0	40.3
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a	3.75 fl oz/a 0.66 lb/a	112	99.0	99.0	99.0	99.0	38.0
						206	99.0	85.0	99.0	99.0	42.0
						311	99.0	65.0	99.0	99.0	41.0
						Mean =	99.0	83.0	99.0	99.0	40.3
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC 75 DF	150000 seeds/a	5.75 fl oz/a 1.25 lb/a	113	99.0	99.0	99.0	99.0	40.0
						202	99.0	99.0	99.0	99.0	41.0
						312	99.0	99.0	99.0	99.0	40.0
						Mean =	99.0	99.0	99.0	99.0	40.3

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name	Amapa	Agrass	Rapra	Sprar	C, GLYMA							
Crop Type, Code	May-3-21	May-3-21	May-3-21	May-3-21	May-3-21							
Rating Date	Control	Control	Control	Control	Stand							
Rating Type	May-3-21	May-3-21	May-3-21	May-3-21	May-3-21							
Data Entry Date												
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	Plot	5	6	7	8	9
14	NTC					114		0.0	0.0	0.0	0.0	39.0
						208		0.0	0.0	0.0	0.0	38.0
						304		0.0	0.0	0.0	0.0	39.0
						Mean =		0.0	0.0	0.0	0.0	38.7

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin			
Trial ID: SB-01-21	Location:	Trial Year: 2020	
Protocol ID:	Investigator (Creator): Eric P. Prostko		
Project ID:	Study Director: Bob Montgomery		
Sponsor Contact:			

Pest Name							C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA
Crop Type, Code							May-11-21	May-11-21	May-11-21	May-11-21
Rating Date							Chlorosis	Necrosis	Malformatio	Growthreduc
Rating Type							May-11-21	May-11-21	May-11-21	May-11-21
Data Entry Date										
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Appl Unit	Code Plot	10	11	12	13
1	CROP ASGROW	AG55XFO		150000 seeds/a		101	0.0	0.0	0.0	0.0
	HERB Zidua SC	4.17 SC		2.5 fl oz/a	A	210	0.0	0.0	0.0	5.0
						314	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	1.7
2	CROP ASGROW	AG55FXO		150000 seeds/a		102	0.0	0.0	0.0	0.0
	HERB Zidua SC	4.17 SC		3.75 fl oz/a	A	213	0.0	0.0	0.0	10.0
						305	0.0	0.0	5.0	5.0
						Mean =	0.0	0.0	1.7	5.0
3	CROP ASGROW	AG55FXO		150000 seeds/a		103	0.0	0.0	0.0	15.0
	HERB Zidua SC	4.17 SC		5.75 fl oz/a	A	214	0.0	0.0	0.0	5.0
						313	0.0	0.0	0.0	15.0
						Mean =	0.0	0.0	0.0	11.7
4	CROP ASGROW	AG55FXO		150000 seeds/a		104	0.0	0.0	0.0	20.0
	HERB Zidua SC	4.17 SC		7 fl oz/a	A	203	0.0	0.0	0.0	20.0
						302	0.0	0.0	0.0	20.0
						Mean =	0.0	0.0	0.0	20.0
5	CROP ASGROW	AG55FXO		150000 seeds/a		105	0.0	0.0	0.0	0.0
	HERB Glory	75 DF		0.333 lb/a	A	207	0.0	0.0	0.0	0.0
						306	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	0.0
	HERB Glory	75 DF		0.5 lb/a	A	205	0.0	0.0	0.0	5.0
						308	0.0	0.0	0.0	5.0
						Mean =	0.0	0.0	0.0	3.3
7	CROP ASGROW	AG55FXO		150000 seeds/a		107	0.0	10.0	0.0	0.0
	HERB Glory	75 DF		0.66 lb/a	A	204	0.0	0.0	0.0	5.0
						301	0.0	5.0	0.0	0.0
						Mean =	0.0	5.0	0.0	1.7
8	CROP ASGROW	AG55FXO		150000 seeds/a		108	0.0	20.0	0.0	0.0
	HERB Glory	75 DF		1.0 lb/a	A	209	0.0	20.0	0.0	5.0
						307	0.0	20.0	0.0	5.0
						Mean =	0.0	20.0	0.0	3.3
9	CROP ASGROW	AG55FXO		150000 seeds/a		109	0.0	25.0	0.0	0.0
	HERB Glory	75 DF		1.25 lb/a	A	211	5.0	35.0	0.0	10.0
						309	0.0	30.0	0.0	10.0
						Mean =	1.7	30.0	0.0	6.7
10	CROP ASGROW	AG55FXO		150000 seeds/a		110	0.0	0.0	0.0	0.0
	HERB Zidua SC	4.17 SC		2 fl oz/a	A	212	0.0	0.0	0.0	5.0
	HERB Glory	75 DF		0.333 lb/a	A	310	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	1.7
11	CROP ASGROW	AG55FXO		150000 seeds/a		111	0.0	0.0	0.0	0.0
	HERB Zidua SC	4.17 SC		2.5 fl oz/a	A	201	0.0	5.0	0.0	10.0
	HERB Glory	75 DF		0.5 lb/a	A	303	0.0	0.0	0.0	5.0
						Mean =	0.0	1.7	0.0	5.0
12	CROP ASGROW	AG55FXO		150000 seeds/a		112	0.0	0.0	0.0	15.0
	HERB Zidua SC	4.17 SC		3.75 fl oz/a	A	206	0.0	0.0	0.0	10.0
	HERB Glory	75 DF		0.66 lb/a	A	311	0.0	0.0	0.0	10.0
						Mean =	0.0	0.0	0.0	11.7
13	CROP ASGROW	AG55FXO		150000 seeds/a		113	0.0	5.0	0.0	20.0
	HERB Zidua SC	4.17 SC		5.75 fl oz/a	A	202	0.0	5.0	0.0	10.0
	HERB Glory	75 DF		1.25 lb/a	A	312	0.0	10.0	0.0	10.0
						Mean =	0.0	6.7	0.0	13.3

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name					C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA
Crop Type, Code					May-11-21	May-11-21	May-11-21	May-11-21
Rating Date					Chlorosis	Necrosis	Malformatio	Growthreduc
Rating Type					May-11-21	May-11-21	May-11-21	May-11-21
Data Entry Date								
Trt	Treatment	Form	Form	Rate	Appl			
No.	Type	Name	Conc	Type	Rate	Unit	Code	Plot
								10
								11
								12
								13
14	NTC						114	0.0
							208	0.0
							304	0.0
							Mean =	0.0

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin				
Trial ID: SB-01-21	Location:	Trial Year: 2020		
Protocol ID:	Investigator (Creator): Eric P. Prostko			
Project ID:	Study Director: Bob Montgomery			
Sponsor Contact:				

Pest Name							C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA		
Crop Type, Code							May-17-21	May-18-21	May-18-21	May-18-21	May-18-21		
Rating Date							Stand	Chlorosis	Necrosis	Malformatio	Groinhib		
Rating Type							May-17-21	May-18-21	May-18-21	May-18-21	May-18-21		
Data Entry Date							May-17-21	May-18-21	May-18-21	May-18-21	May-18-21		
Trt	Treatment	Form	Form	Rate	Appl								
No.	Type	Name	Conc	Type	Rate	Unit	Code	Plot	14	15	16	17	18
1	CROP	ASGROW	AG55FXO	150000	seeds/a		101		39.0	0.0	0.0	0.0	0.0
	HERB	Zidua	SC	4.17	SC	2.5 fl oz/a	A	210	42.0	0.0	0.0	0.0	0.0
								314	42.0	0.0	0.0	0.0	0.0
								Mean =	41.0	0.0	0.0	0.0	0.0
2	CROP	ASGROW	AG55FXO	150000	seeds/a		102		39.0	0.0	0.0	0.0	0.0
	HERB	Zidua	SC	4.17	SC	3.75 fl oz/a	A	213	39.0	0.0	0.0	0.0	15.0
								305	39.0	0.0	0.0	0.0	5.0
								Mean =	39.0	0.0	0.0	0.0	6.7
3	CROP	ASGROW	AG55FXO	150000	seeds/a		103		34.0	0.0	0.0	0.0	20.0
	HERB	Zidua	SC	4.17	SC	5.75 fl oz/a	A	214	40.0	0.0	0.0	0.0	0.0
								313	39.0	0.0	0.0	0.0	15.0
								Mean =	37.7	0.0	0.0	0.0	11.7
4	CROP	ASGROW	AG55FXO	150000	seeds/a		104		41.0	0.0	0.0	0.0	30.0
	HERB	Zidua	SC	4.17	SC	7 fl oz/a	A	203	35.0	0.0	0.0	0.0	20.0
								302	43.0	0.0	0.0	0.0	20.0
								Mean =	39.7	0.0	0.0	0.0	23.3
5	CROP	ASGROW	AG55FXO	150000	seeds/a		105		36.0	0.0	0.0	0.0	10.0
	HERB	Glory		75	DF	0.333 lb/a	A	207	40.0	0.0	0.0	0.0	0.0
								306	36.0	0.0	0.0	0.0	0.0
								Mean =	37.3	0.0	0.0	0.0	3.3
6	CROP	ASGROW	AG55FXO	150000	seeds/a		106		42.0	0.0	0.0	0.0	0.0
	HERB	Glory		75	DF	0.5 lb/a	A	205	40.0	0.0	0.0	0.0	0.0
								308	40.0	0.0	0.0	0.0	0.0
								Mean =	40.7	0.0	0.0	0.0	0.0
7	CROP	ASGROW	AG55FXO	150000	seeds/a		107		41.0	0.0	0.0	0.0	0.0
	HERB	Glory		75	DF	0.66 lb/a	A	204	39.0	0.0	0.0	0.0	0.0
								301	40.0	0.0	5.0	0.0	0.0
								Mean =	40.0	0.0	1.7	0.0	0.0
8	CROP	ASGROW	AG55FXO	150000	seeds/a		108		43.0	0.0	20.0	0.0	10.0
	HERB	Glory		75	DF	1.0 lb/a	A	209	41.0	0.0	10.0	0.0	0.0
								307	37.0	0.0	10.0	0.0	10.0
								Mean =	40.3	0.0	13.3	0.0	6.7
9	CROP	ASGROW	AG55FXO	150000	seeds/a		109		45.0	0.0	20.0	0.0	15.0
	HERB	Glory		75	DF	1.25 lb/a	A	211	41.0	0.0	30.0	0.0	10.0
								309	44.0	0.0	30.0	0.0	10.0
								Mean =	43.3	0.0	26.7	0.0	11.7
10	CROP	ASGROW	AG55FXO	150000	seeds/a		110		43.0	0.0	0.0	0.0	10.0
	HERB	Zidua	SC	4.17	SC	2 fl oz/a	A	212	41.0	0.0	0.0	0.0	10.0
	HERB	Glory		75	DF	0.333 lb/a	A	310	41.0	0.0	0.0	0.0	0.0
								Mean =	41.7	0.0	0.0	0.0	6.7
11	CROP	ASGROW	AG55FXO	150000	seeds/a		111		38.0	0.0	0.0	0.0	10.0
	HERB	Zidua	SC	4.17	SC	2.5 fl oz/a	A	201	39.0	0.0	0.0	0.0	0.0
	HERB	Glory		75	DF	0.5 lb/a	A	303	41.0	0.0	0.0	0.0	5.0
								Mean =	39.3	0.0	0.0	0.0	5.0
12	CROP	ASGROW	AG55FXO	150000	seeds/a		112		41.0	0.0	0.0	0.0	20.0
	HERB	Zidua	SC	4.17	SC	3.75 fl oz/a	A	206	37.0	0.0	0.0	0.0	0.0
	HERB	Glory		75	DF	0.66 lb/a	A	311	42.0	0.0	0.0	5.0	5.0
								Mean =	40.0	0.0	0.0	1.7	8.3
13	CROP	ASGROW	AG55FXO	150000	seeds/a		113		43.0	0.0	5.0	0.0	20.0
	HERB	Zidua	SC	4.17	SC	5.75 fl oz/a	A	202	38.0	0.0	0.0	0.0	20.0
	HERB	Glory		75	DF	1.25 lb/a	A	312	40.0	0.0	5.0	0.0	15.0
								Mean =	40.3	0.0	3.3	0.0	18.3

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name	C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA	C, GLYMA
Crop Type, Code	May-17-21	May-18-21	May-18-21	May-18-21	May-18-21
Rating Date	Stand	Chlorosis	Necrosis	Malformatio	Groinhib
Rating Type	May-17-21	May-18-21	May-18-21	May-18-21	May-18-21
Data Entry Date					
Trt					
Treatment					
Form					
Form					
Rate					
Unit					
Appl					
Code					
Plot	14	15	16	17	18
No.					
Type					
Name					
14					
NTC					
	114	41.0	0.0	0.0	0.0
	208	39.0	0.0	0.0	0.0
	304	43.0	0.0	0.0	0.0
	Mean =	41.0	0.0	0.0	0.0

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin				
Trial ID: SB-01-21	Location:	Trial Year: 2020		
Protocol ID:	Investigator (Creator): Eric P. Prostko			
Project ID:	Study Director: Bob Montgomery			
Sponsor Contact:				

Pest Name							Amapa	Rapra	Agrass	Sprar	Amapa
Crop Type, Code							May-18-21	May-18-21	May-18-21	May-18-21	Jun-11-21
Rating Date							Control	Control	Control	Control	Control
Rating Type							May-18-21	May-18-21	May-18-21	May-18-21	Jun-11-21
Data Entry Date							Control	Control	Control	Control	Control
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code Plot	19	20	21	22	23
1	CROP ASGROW HERB Zidua SC	AG55XFO	4.17 SC	150000 seeds/a	2.5 fl oz/a	101	0.0	0.0	50.0	99.0	30.0
						210	99.0	0.0	0.0	99.0	99.0
						314	99.0	0.0	0.0	99.0	95.0
						Mean =	66.0	0.0	16.7	99.0	74.7
2	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a	3.75 fl oz/a	102	99.0	0.0	95.0	99.0	50.0
						213	99.0	20.0	99.0	99.0	99.0
						305	99.0	20.0	99.0	99.0	99.0
						Mean =	99.0	13.3	97.7	99.0	82.7
3	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a	5.75 fl oz/a	103	99.0	50.0	99.0	99.0	99.0
						214	99.0	0.0	0.0	99.0	95.0
						313	99.0	20.0	99.0	99.0	99.0
						Mean =	99.0	23.3	66.0	99.0	97.7
4	CROP ASGROW HERB Zidua SC	AG55FXO	4.17 SC	150000 seeds/a	7 fl oz/a	104	99.0	85.0	99.0	99.0	99.0
						203	99.0	50.0	99.0	99.0	99.0
						302	99.0	50.0	99.0	99.0	99.0
						Mean =	99.0	61.7	99.0	99.0	99.0
5	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	0.333 lb/a	105	90.0	85.0	85.0	99.0	50.0
						207	0.0	85.0	0.0	99.0	0.0
						306	85.0	99.0	0.0	99.0	65.0
						Mean =	58.3	89.7	28.3	99.0	38.3
6	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	0.5 lb/a	106	99.0	99.0	95.0	99.0	99.0
						205	95.0	85.0	50.0	99.0	85.0
						308	99.0	99.0	0.0	99.0	65.0
						Mean =	97.7	94.3	48.3	99.0	83.0
7	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	0.66 lb/a	107	9.0	99.0	95.0	99.0	99.0
						204	99.0	99.0	50.0	99.0	99.0
						301	95.0	99.0	0.0	99.0	85.0
						Mean =	67.7	99.0	48.3	99.0	94.3
8	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	1.0 lb/a	108	99.0	99.0	99.0	99.0	99.0
						209	99.0	99.0	99.0	99.0	99.0
						307	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	99.0	99.0	99.0
9	CROP ASGROW HERB Glory	AG55FXO	75 DF	150000 seeds/a	1.25 lb/a	109	99.0	99.0	99.0	99.0	99.0
						211	99.0	99.0	0.0	99.0	99.0
						309	99.0	99.0	80.0	99.0	99.0
						Mean =	99.0	99.0	59.7	99.0	99.0
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC	150000 seeds/a	2 fl oz/a	110	99.0	95.0	95.0	99.0	85.0
						212	99.0	99.0	0.0	99.0	95.0
			75 DF		0.333 lb/a	310	99.0	99.0	75.0	99.0	99.0
						Mean =	99.0	97.7	56.7	99.0	93.0
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC	150000 seeds/a	2.5 fl oz/a	111	99.0	99.0	95.0	99.0	99.0
						201	99.0	85.0	0.0	99.0	80.0
			75 DF		0.5 lb/a	303	99.0	99.0	50.0	99.0	99.0
						Mean =	99.0	94.3	48.3	99.0	92.7
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC	150000 seeds/a	3.75 fl oz/a	112	99.0	99.0	99.0	99.0	99.0
						206	99.0	99.0	0.0	99.0	99.0
			75 DF		0.66 lb/a	311	99.0	99.0	50.0	99.0	99.0
						Mean =	99.0	99.0	49.7	99.0	99.0
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO	4.17 SC	150000 seeds/a	5.75 fl oz/a	113	99.0	99.0	99.0	99.0	99.0
						202	99.0	99.0	95.0	99.0	99.0
			75 DF		1.25 lb/a	312	99.0	99.0	99.0	99.0	99.0
						Mean =	99.0	99.0	97.7	99.0	99.0

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

Pest Name						Amapa	Rapra	Agrass	Sprar	Amapa		
Crop Type, Code												
Rating Date						May-18-21	May-18-21	May-18-21	May-18-21	Jun-11-21		
Rating Type						Control	Control	Control	Control	Control		
Data Entry Date						May-18-21	May-18-21	May-18-21	May-18-21	Jun-11-21		
Trt No.	Treatment Type	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Plot	19	20	21	22	23
14	NTC					114		0.0	0.0	0.0	0.0	0.0
						208		0.0	0.0	0.0	0.0	0.0
						304		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 Pyroxysulfone and Metribuzin

Trial ID: SB-01-21	Location:	Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko	
Project ID:	Study Director: Bob Montgomery	
	Sponsor Contact:	

							Rapra	Agrass
							Jun-11-21 Control Jun-11-21	Jun-11-21 Control Jun-11-21
Trt No.	Treatment Type	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code Plot	24	25
1	CROP ASGROW HERB Zidua SC	AG55XFO 4.17 SC		150000 seeds/a 2.5 fl oz/a		101 210 314 Mean =	0.0 0.0 0.0 0.0	20.0 60.0 0.0 26.7
2	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 3.75 fl oz/a		102 213 305 Mean =	20.0 0.0 0.0 6.7	65.0 85.0 99.0 83.0
3	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 5.75 fl oz/a		103 214 313 Mean =	50.0 0.0 50.0 33.3	99.0 20.0 99.0 72.7
4	CROP ASGROW HERB Zidua SC	AG55FXO 4.17 SC		150000 seeds/a 7 fl oz/a		104 203 302 Mean =	70.0 40.0 50.0 53.3	99.0 60.0 99.0 86.0
5	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.333 lb/a		105 207 306 Mean =	99.0 85.0 99.0 94.3	65.0 0.0 50.0 38.3
6	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.5 lb/a		106 205 308 Mean =	99.0 85.0 99.0 94.3	75.0 85.0 65.0 75.0
7	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 0.66 lb/a		107 204 301 Mean =	99.0 99.0 90.0 96.0	80.0 85.0 20.0 61.7
8	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.0 lb/a		108 209 307 Mean =	99.0 99.0 99.0 99.0	99.0 99.0 99.0 99.0
9	CROP ASGROW HERB Glory	AG55FXO 75 DF		150000 seeds/a 1.25 lb/a		109 211 309 Mean =	99.0 0.0 99.0 66.0	99.0 60.0 85.0 81.3
10	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2 fl oz/a 0.333 lb/a		110 212 310 Mean =	99.0 99.0 99.0 99.0	80.0 50.0 80.0 70.0
11	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 2.5 fl oz/a 0.5 lb/a		111 201 303 Mean =	99.0 75.0 99.0 91.0	90.0 60.0 65.0 71.7
12	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 3.75 fl oz/a 0.66 lb/a		112 206 311 Mean =	99.0 99.0 99.0 99.0	95.0 75.0 65.0 78.3
13	CROP ASGROW HERB Zidua SC HERB Glory	AG55FXO 4.17 SC 75 DF		150000 seeds/a 5.75 fl oz/a 1.25 lb/a		113 202 312 Mean =	99.0 99.0 99.0 99.0	99.0 95.0 85.0 93.0

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin	
Trial ID: SB-01-21	Location: Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko
Project ID:	Study Director: Bob Montgomery
Sponsor Contact:	

					Rapra	Agrass
Pest Name					Jun-11-21	Jun-11-21
Crop Type, Code					Control	Control
Rating Date					Jun-11-21	Jun-11-21
Rating Type						
Data Entry Date						
Trt No.	Treatment Type	Form Conc	Form Rate	Rate Unit	Appl Code	Plot
14	NTC					
					114	0.0
					208	0.0
					304	0.0
					Mean =	0.0

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Preemergence Tolerance and Efficacy of Pyroxysulfone and Metribuzin		
Trial ID: SB-01-21	Location:	Trial Year: 2020
Protocol ID:	Investigator (Creator): Eric P. Prostko	
Project ID:	Study Director: Bob Montgomery	
	Sponsor Contact:	

<u>Crop Type, Code</u>
C = EPPO species (Bayer) codes