

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Diluent	Rep			
										1	2	3	4
1	NTC								-	101	212	307	402
2	HM-1899A	7.09	EC	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	102	209	308	411
3	HM-1899A	7.09	EC	36.0	oz/a	PRE	A	28.12 mL/mx	1471.9 mL	103	201	312	404
4	HM-1899A	7.09	EC	40.0	oz/a	PRE	A	31.25 mL/mx	1468.8 mL	104	210	302	412
5	INTIMIDATOR	4.81	SC	48.0	oz/a	PRE	A	37.5 mL/mx	1462.5 mL	105	207	310	406
6	TENDOVO	4.177	ZC	38.0	oz/a	PRE	A	29.69 mL/mx	1470.3 mL	106	205	303	407
7	TENDOVO	4.177	ZC	48.0	oz/a	PRE	A	37.5 mL/mx	1462.5 mL	107	204	306	401
8	BOUNDARY	6.5	SC	24.0	oz/a	PRE	A	18.75 mL/mx	1481.3 mL	108	211	304	410
9	VALOR EZ	4	SC	2.0	oz/a	PRE	A	1.562 mL/mx	1496.5 mL	109	206	309	403
	ZIDUA	4.17	SC	2.5	oz/a	PRE	A	1.953 mL/mx					
10	TRICOR	4	F	8.0	oz/a	PRE	A	6.25 mL/mx	1468.8 mL	110	202	305	408
	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	25.0 mL/mx					
11	TRICOR	4	F	8.0	oz/a	PRE	A	6.25 mL/mx	1491.8 mL	111	208	301	409
	ZIDUA	4.17	SC	2.5	oz/a	PRE	A	1.953 mL/mx					
12	NTC								-	112	203	311	405

Sort Order: Replicate 1

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR,  
TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
Location: PONDER FARM Investigator: Eric P. Prostko

## Trial Comments

HM-1899A = FOMESAFEN (0.98 LBS/GAL)+ S-METOLACHLOR (5.08 LBS/GAL) + METRIBUZIN (1.1 LBS/GAL)  
INTIMIDATOR = S-METOLACHLOR (3.39 LBS/GAL) + METRIBUZIN (0.75 LBS/GAL) + FOMESAFEN (0.67 LBS/GAL)  
TENDOVO = S-METOLACHLOR (3.47 LBS/GAL) + CLORANSULAM (0.065 LBS/GAL) + METRIBUZIN (0.642 LBS/GAL)  
BOUNDARY = S-METOLACHLOR (5.25 LBS/GAL) + METRIBUZIN (1.25 LBS/GAL)

MISSING DATA IN PLOT 111 DUE TO NOZZLE PROBLEMS DURING APPLICATION.

### **SUMMARY:**

- 1) PRE TREATMENTS HAD NO EFFECT ON SOYBEAN DENSITY/STAND.
- 2) ALL PRE TREATMENTS CAUSED SIGNIFICANT SOYBEAN STUNTING. VALOR + ZIDUA AND TRICOR + PROWL CAUSED THE MOST SOYBEAN STUNTING.
- 3) SOYBEAN LEAF NECROSIS (8-14%) WAS OBSERVED WITH ALL RATES OF HM-1899A AND INTIMIDATOR.
- 4) PALMER AMARANTH AND WILD RADISH CONTROL WITH ALL PRE TREATMENTS WAS EXCELLENT (99%).
- 5) GENERALLY, HM-1899A AND INTIMIDATOR PROVIDED BETTER ANNUAL GRASS CONTROL THAN THE OTHER PRE TREATMENTS.

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

### GENERAL TRIAL INFORMATION

**Study Director:** ZACH TAYLOR **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_  
**Investigator:** Eric P. Prostko **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** \_\_\_\_\_ **Trial Status:** E  
**State/Prov.:** \_\_\_\_\_ **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_ **Initiation Date:** \_\_\_\_\_  
**Country:** \_\_\_\_\_ **Planned Completion Date:** \_\_\_\_\_  
**E-Longitude of LL Corner °:** \_\_\_\_\_ **N-Latitude of LL Corner °:** \_\_\_\_\_  
**Altitude of LL Corner:** \_\_\_\_\_ **Unit:** \_\_\_\_\_ **Angle y-axis to North °:** \_\_\_\_\_  
**Directions:** \_\_\_\_\_

### COOPERATOR/LANDOWNER

**Cooperator:** \_\_\_\_\_ **Country:** \_\_\_\_\_  
**Org:** \_\_\_\_\_ **Phone No:** \_\_\_\_\_  
**Address 1:** \_\_\_\_\_ **Fax No:** \_\_\_\_\_  
**Address 2:** \_\_\_\_\_  
**City:** \_\_\_\_\_  
**State/Prov:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N  
**Guidelines:** \_\_\_\_\_ **Guideline Description:** \_\_\_\_\_

**Objective:** \_\_\_\_\_

**Conclusions:** \_\_\_\_\_

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	PA	LMEER AMARANTH
2.	AGRASS	TX	PAN/CRAB/GOOSE/CROW
3.	RAPRA	WI	LD RADISH
4.	SPEAR	CO	RN SPURRY

**Crop 1:** GLYMA SOYBEAN **Variety:** ASGROW AG48FX3  
**Planting Date:** Apr-18-23 **Planting Method:** GREAT PLAINS DRILL  
**Rate:** 110000 SEED/A **Depth:** 1.0 IN **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 15 IN **Spacing Within Row:** \_\_\_\_\_ **Seed Bed:** \_\_\_\_\_  
**Soil Temperature:** \_\_\_\_\_ **Soil Moisture:** \_\_\_\_\_ **Emergence Date:** \_\_\_\_\_

### SITE AND DESIGN

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** CONVENTIONAL **Study Design:** RACOBL

**Trial Initiation Comments:**

	Previous Crops	Previous Pesticides	Year
1.	FALLOW		2022

### MAINTENANCE

**Field Prep./Maintenance:** 1 TON/A LIME - PREPLANT  
 300 LBS/A 5-15-30 - PREPLNT

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

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

### SOIL DESCRIPTION

% Sand: 92 % OM: 0.65 Texture: SAND  
 % Silt: 4 pH: 6.0 Soil Name: TIFTON  
 % Clay: 4 CEC: 2.5 Fert. Level: GOOD

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-19-23		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	Apr-20-23		0.15	IN	SPRINKLER - LATERAL MOVE		
3.	Apr-21-23		0.3	IN	SPRINKLER - LATERAL MOVE		
4.	Apr-26-23		0.3	IN	SPRINKLER - LATERAL MOVE		
5.	Apr-27-23		1.0	IN	RAINFALL		
6.	Apr-29-23		0.65	IN	RAINFALL		
7.	May-11-23		0.5	IN	SPRINKLER - LATERAL MOVE		
8.	May-12-23		2.5	IN	RAINFALL		
9.	May-20-23		0.1	IN	RAINFALL		
10.	May-22-23		0.75	IN	RAINFALL		
11.	May-23-23		0.3	IN	RAINFALL		
12.	May-30-23		0.5	IN	RAINFALL		
13.	Jun-7-23		0.5	IN	SPRINKLER - LATERAL MOVE		
14.	Jun-7-23		0.5	IN	RAINFALL		
15.	Jun-12-23		0.65	IN	RAINFALL		
16.	Jun-13-23		0.6	IN	RAINFALL		
17.	Jun-14-23		2.0	IN	RAINFALL		

Overall Moisture Conditions: \_\_\_\_\_  
 Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

### APPLICATION DESCRIPTION

	A
Application Date:	Apr-19-23
Time of Day:	7:45 AM
Application Method:	BACKPACK
Application Timing:	SOIL
Applic. Placement:	SOIL
Air Temp., Unit:	51 F
% Relative Humidity:	85
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	62 F
Soil Moisture:	OPTIMUM
% Cloud Cover:	0

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GLYMA,
Stage Scale:	
Height, Unit:	

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

### WEED STAGE AT EACH APPLICATION

	A
<b>Weed 1 Code, Stage:</b>	AMAPA,
<b>Stage Scale:</b>	
<b>Density, Unit:</b>	
<b>Weed 2 Code, Stage:</b>	AGRAS,
<b>Stage Scale:</b>	
<b>Density, Unit:</b>	
<b>Weed 3 Code, Stage:</b>	RAPRA,
<b>Stage Scale:</b>	
<b>Density, Unit:</b>	
<b>Weed 4 Code, Stage:</b>	SPEAR,
<b>Stage Scale:</b>	
<b>Density, Unit:</b>	

### APPLICATION EQUIPMENT

	A
<b>Appl. Equipment:</b>	BACKPACK
<b>Operating Pressure:</b>	36
<b>Nozzle Type:</b>	AIXR
<b>Nozzle Size:</b>	11002
<b>Nozzle Spacing, Unit:</b>	20 IN
<b>Nozzles/Row:</b>	
<b>Band Width, Unit:</b>	
<b>Boom Length, Unit:</b>	60 IN
<b>Boom Height, Unit:</b>	20 IN
<b>Ground Speed, Unit:</b>	3.5 MPH
<b>Incorporation Equip.:</b>	
<b>Hours to Incorp.:</b>	
<b>Incorp. Depth, Unit:</b>	
<b>Carrier:</b>	WATER
<b>Spray Volume, Unit:</b>	15 GPA
<b>Spray pH:</b>	
<b>Propellant:</b>	CO2
<b>Tank Mix (Y/N):</b>	

Trt No	Treatment Application Comment

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Glyma	Amapa	Agrass	Glyma	Glyma	Glyma	Glyma	Amapa	Rapra	Agrass	Spear
Crop Code				Stunting	Control	Control	#/5ft	Stunting	Necrosis	Drawstring	Control	Control	Control	Control
Rating Data Type				%	%	%		%	%	1or2	%	%	%	%
Rating Unit				May-1-23	May-1-23	May-1-23	May-1-23	May-9-23	May-9-23	May-9-23	May-9-23	May-9-23	May-9-23	May-9-23
Rating Date				12 DA-A	12 DA-A	12 DA-A	12 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Trt-Eval Interval				1	2	3	4	5	6	7	8	9	10	11
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code							
1	NTC							0.0 e	0.0 b	0.0 e	19.3 -	0.0 f	0.0 e	0.0 b
2	HM-1899A	7.09 EC	32.0 oz/a	PRE	A			8.8 cd	99.0 a	97.0 a	14.8 -	11.3 c	7.5 c	2.0 a
3	HM-1899A	7.09 EC	36.0 oz/a	PRE	A			10.0 bcd	99.0 a	94.5 a	19.8 -	10.0 cd	11.3 ab	2.0 a
4	HM-1899A	7.09 EC	40.0 oz/a	PRE	A			12.5 ab	99.0 a	95.8 a	16.0 -	11.3 c	13.8 a	2.0 a
5	INTIMIDATOR	4.81 SC	48.0 oz/a	PRE	A			11.3 abc	99.0 a	93.5 a	14.8 -	11.3 c	10.0 bc	2.0 a
6	TENDOVO	4.177 ZC	38.0 oz/a	PRE	A			8.8 cd	99.0 a	73.8 bc	18.8 -	8.8 cde	0.0 e	2.0 a
7	TENDOVO	4.177 ZC	48.0 oz/a	PRE	A			7.5 d	99.0 a	67.5 cd	15.8 -	10.0 cd	2.5 de	2.0 a
8	BOUNDARY	6.5 SC	24.0 oz/a	PRE	A			11.3 abc	99.0 a	61.3 cd	17.5 -	6.3 e	2.5 de	2.0 a
9	VALOR EZ	4 SC	2.0 oz/a	PRE	A			13.8 a	99.0 a	93.5 a	16.5 -	20.0 b	0.0 e	2.0 a
	ZIDUA	4.17 SC	2.5 oz/a	PRE	A									
10	TRICOR	4 F	8.0 oz/a	PRE	A			13.8 a	99.0 a	85.0 ab	16.3 -	25.0 a	3.8 d	2.0 a
	PROWL H20	3.8 SC	32.0 oz/a	PRE	A									
11	TRICOR	4 F	8.0 oz/a	PRE	A			11.7 abc	99.0 a	58.3 d	18.0 -	6.7 de	0.0 e	2.0 a
	ZIDUA	4.17 SC	2.5 oz/a	PRE	A									
12	NTC							0.0 e	0.0 b	0.0 e	18.5 -	0.0 f	0.0 e	0.0 b
LSD P=.10				3.75	.	13.21	3.83	3.57	3.54	.	.	.	8.48	.
Standard Deviation				3.13	0.00	11.03	3.20	2.98	2.96	0.00	0.00	0.00	7.08	0.00
CV				34.39	0.0	16.14	18.64	29.68	69.22	0.0	0.0	0.0	9.82	0.0
Grand Mean				9.10	82.50	68.34	17.15	10.03	4.27	1.67	82.50	82.50	72.07	82.50

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=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17  
 Could not calculate LSD (% mean diff) for columns 2,7,8,9,11,13 because error mean square = 0.  
 ^Calculated from residual.

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Glyma	Amapa	Agrass	Glyma	Amapa	Agrass				
Crop Code				Stunting	Control	Control	Stunting	Control	Control				
Rating Data Type				%	%	%	%	%	%				
Rating Unit				May-22-23	May-22-23	May-22-23	Jun-6-23	Jun-6-23	Jun-6-23				
Rating Date				33 DA-A	33 DA-A	33 DA-A	48 DA-A	48 DA-A	48 DA-A				
Tri-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	12	13	14	15	16	17
1	NTC							0.0 d	0.0 b	0.0 e	0.0 e	0.0 c	0.0 e
2	HM-1899A	7.09 EC		32.0 oz/a	PRE	A		8.8 bc	99.0 a	90.0 a	5.0 cd	99.0 a	92.5 a
3	HM-1899A	7.09 EC		36.0 oz/a	PRE	A		7.5 c	99.0 a	92.5 a	2.5 de	99.0 a	91.3 a
4	HM-1899A	7.09 EC		40.0 oz/a	PRE	A		11.3 bc	99.0 a	95.0 a	7.5 c	99.0 a	95.8 a
5	INTIMIDATOR	4.81 SC		48.0 oz/a	PRE	A		7.5 c	99.0 a	95.0 a	3.8 cde	99.0 a	93.8 a
6	TENDOVO	4.177 ZC		38.0 oz/a	PRE	A		0.0 d	99.0 a	72.5 b	0.0 e	99.0 a	72.5 bcd
7	TENDOVO	4.177 ZC		48.0 oz/a	PRE	A		1.3 d	99.0 a	68.8 bc	0.0 e	99.0 a	71.3 bcd
8	BOUNDARY	6.5 SC		24.0 oz/a	PRE	A		2.5 d	99.0 a	56.3 d	0.0 e	99.0 a	62.5 d
9	VALOR EZ	4 SC		2.0 oz/a	PRE	A		12.5 b	99.0 a	77.5 b	12.5 b	99.0 a	75.0 bc
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
10	TRICOR	4 F		8.0 oz/a	PRE	A		18.8 a	99.0 a	76.3 b	21.3 a	89.5 b	78.8 b
	PROWL H20	3.8 SC		32.0 oz/a	PRE	A							
11	TRICOR	4 F		8.0 oz/a	PRE	A		11.7 b	99.0 a	61.7 cd	3.3 cde	99.0 a	65.0 cd
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A							
12	NTC							0.0 d	0.0 b	0.0 e	0.0 e	0.0 c	0.0 e
LSD P=.10				4.09	.	10.26	4.87	3.85	10.11				
Standard Deviation				3.41	0.00	8.57	4.07	3.22	8.44				
CV				50.11	0.0	13.09	87.46	3.94	12.68				
Grand Mean				6.81	82.50	65.45	4.65	81.71	66.52				

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=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17  
 Could not calculate LSD (% mean diff) for columns 2,7,8,9,11,13 because error mean square = 0.  
 ^Calculated from residual.

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR Location: PONDER FARM Investigator: Eric P. Prostko					
Randomized Complete Block (RCB) AOV For Glyma Stunting % May-1-23 12 DA-A (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	1288.657407			
Replicate	3	15.972222	5.324074	0.544	0.6557
Treatment	11	959.490741	87.226431	8.912	0.0001
Error	32	313.194444	9.787326		
Randomized Complete Block (RCB) AOV For Amapa Control % May-1-23 12 DA-A (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	65340.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	65340.000000	5940.000000	0.000	1.0000
Error	32	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Agrass Control % May-1-23 12 DA-A (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	58131.886574			
Replicate	3	953.506944	317.835648	2.614	0.0682
Treatment	11	53286.969907	4844.269992	39.836	0.0001
Error	32	3891.409722	121.606554		
Randomized Complete Block (RCB) AOV For Glyma #/5ft May-1-23 12 DA-A (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	479.979167			
Replicate	3	23.562500	7.854167	0.769	0.5197
Treatment	11	129.729167	11.793561	1.155	0.3548
Error	32	326.687500	10.208984		
Randomized Complete Block (RCB) AOV For Glyma Stunting % May-9-23 20 DA-A (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	2536.053241			
Replicate	3	26.562500	8.854167	0.998	0.4063
Treatment	11	2225.636574	202.330598	22.810	0.0001
Error	32	283.854167	8.870443		
Randomized Complete Block (RCB) AOV For Glyma Necrosis % May-9-23 20 DA-A (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	1399.479167			
Replicate	3	1.562500	0.520833	0.060	0.9806
Treatment	11	1118.229167	101.657197	11.631	0.0001
Error	32	279.687500	8.740234		
Randomized Complete Block (RCB) AOV For Glyma Drawstring 1or2 May-9-23 20 DA-A (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	26.666667			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	26.666667	2.424242	0.000	1.0000
Error	32	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Amapa Control % May-9-23 20 DA-A (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	65340.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	65340.000000	5940.000000	0.000	1.0000
Error	32	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Rapra Control % May-9-23 20 DA-A (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	65340.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	65340.000000	5940.000000	0.000	1.0000
Error	32	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Agrass Control % May-9-23 20 DA-A (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	57379.546296			
Replicate	3	289.361111	96.453704	1.924	0.1455
Treatment	11	55486.379630	5044.216330	100.645	0.0001
Error	32	1603.805556	50.118924		



# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For Spear Control % May-9-23 20 DA-A (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	65340.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	65340.000000	5940.000000	0.000	1.0000
Error	32	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Glyma Stunting % May-22-23 33 DA-A (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	2137.962963			
Replicate	3	119.444444	39.814815	3.423	0.0288
Treatment	11	1646.296296	149.663300	12.867	0.0001
Error	32	372.222222	11.631944		

Randomized Complete Block (RCB) AOV For Amapa Control % May-22-23 33 DA-A (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	65340.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	65340.000000	5940.000000	0.000	1.0000
Error	32	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Agrass Control % May-22-23 33 DA-A (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	51226.331019			
Replicate	3	600.173611	200.057870	2.727	0.0603
Treatment	11	48278.414352	4388.946759	59.822	0.0001
Error	32	2347.743056	73.366970		

Randomized Complete Block (RCB) AOV For Glyma Stunting % Jun-6-23 48 DA-A (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	2421.990741			
Replicate	3	49.305556	16.435185	0.993	0.4088
Treatment	11	1842.824074	167.529461	10.118	0.0001
Error	32	529.861111	16.558160		

Randomized Complete Block (RCB) AOV For Amapa Control % Jun-6-23 48 DA-A (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	64777.916667			
Replicate	3	30.083333	10.027778	0.970	0.4191
Treatment	11	64416.916667	5856.083333	566.290	0.0001
Error	32	330.916667	10.341146		

Randomized Complete Block (RCB) AOV For Agrass Control % Jun-6-23 48 DA-A (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	50825.979167			
Replicate	3	427.062500	142.354167	2.000	0.1338
Treatment	11	48121.229167	4374.657197	61.461	0.0001
Error	32	2277.687500	71.177734		

Rating Unit  
 % = PERCENT



# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	Glyma Stunting %	Amapa Control %	Agrass Control %	Glyma #/5ft	Glyma Stunting %	Glyma Necrosis %	Glyma Drawstring 1or2	Amapa Control %	Rapra Control %	Agrass Control %								
Crop Code	May-1-23	May-1-23	May-1-23	May-1-23	May-9-23	May-9-23	May-9-23	May-9-23	May-9-23	May-9-23								
Rating Data Type	12 DA-A	12 DA-A	12 DA-A	12 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A								
Rating Unit																		
Rating Date																		
Trt-Eval Interval																		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6	7	8	9	10
12	NTC								112	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0
									203	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0
									311	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0
									405	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0
									Mean =	0.0	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0

# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA  
 Trial ID: SB-05-23 Study Dir.: ZACH TAYLOR  
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Spear	Glyma	Amapa	Agrass	Glyma	Amapa	Agrass					
Crop Code				Control	Stunting	Control	Control	Stunting	Control	Control					
Rating Data Type				%	%	%	%	%	%	%					
Rating Unit				May-9-23	May-22-23	May-22-23	May-22-23	Jun-6-23	Jun-6-23	Jun-6-23					
Rating Date				20 DA-A	33 DA-A	33 DA-A	33 DA-A	48 DA-A	48 DA-A	48 DA-A					
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	11	12	13	14	15	16	17
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								212	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	HM-1899A	7.09 EC		32.0 oz/a	PRE	A		102	99.0	0.0	99.0	75.0	0.0	99.0	95.0
								209	99.0	10.0	99.0	95.0	5.0	99.0	95.0
								308	99.0	15.0	99.0	95.0	10.0	99.0	85.0
								411	99.0	10.0	99.0	95.0	5.0	99.0	95.0
								Mean =	99.0	8.8	99.0	90.0	5.0	99.0	92.5
3	HM-1899A	7.09 EC		36.0 oz/a	PRE	A		103	99.0	0.0	99.0	85.0	5.0	99.0	95.0
								201	99.0	5.0	99.0	95.0	0.0	99.0	90.0
								312	99.0	15.0	99.0	95.0	5.0	99.0	85.0
								404	99.0	10.0	99.0	95.0	0.0	99.0	95.0
								Mean =	99.0	7.5	99.0	92.5	2.5	99.0	91.3
4	HM-1899A	7.09 EC		40.0 oz/a	PRE	A		104	99.0	10.0	99.0	95.0	10.0	99.0	99.0
								210	99.0	10.0	99.0	95.0	15.0	99.0	95.0
								302	99.0	10.0	99.0	95.0	0.0	99.0	90.0
								412	99.0	15.0	99.0	95.0	5.0	99.0	99.0
								Mean =	99.0	11.3	99.0	95.0	7.5	99.0	95.8
5	INTIMIDATOR	4.81 SC		48.0 oz/a	PRE	A		105	99.0	0.0	99.0	95.0	0.0	99.0	95.0
								207	99.0	10.0	99.0	95.0	5.0	99.0	90.0
								310	99.0	10.0	99.0	95.0	5.0	99.0	95.0
								406	99.0	10.0	99.0	95.0	5.0	99.0	95.0
								Mean =	99.0	7.5	99.0	95.0	3.8	99.0	93.8
6	TENDOVO	4.177 ZC		38.0 oz/a	PRE	A		106	99.0	0.0	99.0	60.0	0.0	99.0	60.0
								205	99.0	0.0	99.0	70.0	0.0	99.0	65.0
								303	99.0	0.0	99.0	70.0	0.0	99.0	70.0
								407	99.0	0.0	99.0	90.0	0.0	99.0	95.0
								Mean =	99.0	0.0	99.0	72.5	0.0	99.0	72.5
7	TENDOVO	4.177 ZC		48.0 oz/a	PRE	A		107	99.0	0.0	99.0	70.0	0.0	99.0	70.0
								204	99.0	0.0	99.0	65.0	0.0	99.0	70.0
								306	99.0	5.0	99.0	80.0	0.0	99.0	85.0
								401	99.0	0.0	99.0	60.0	0.0	99.0	60.0
								Mean =	99.0	1.3	99.0	68.8	0.0	99.0	71.3
8	BOUNDARY	6.5 SC		24.0 oz/a	PRE	A		108	99.0	0.0	99.0	50.0	0.0	99.0	60.0
								211	99.0	0.0	99.0	50.0	0.0	99.0	65.0
								304	99.0	0.0	99.0	65.0	0.0	99.0	60.0
								410	99.0	10.0	99.0	60.0	0.0	99.0	65.0
								Mean =	99.0	2.5	99.0	56.3	0.0	99.0	62.5
9	VALOR EZ	4 SC		2.0 oz/a	PRE	A		109	99.0	15.0	99.0	85.0	20.0	99.0	65.0
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A		206	99.0	10.0	99.0	60.0	15.0	99.0	70.0
								309	99.0	15.0	99.0	70.0	15.0	99.0	75.0
								403	99.0	10.0	99.0	95.0	0.0	99.0	90.0
								Mean =	99.0	12.5	99.0	77.5	12.5	99.0	75.0
10	TRICOR	4 F		8.0 oz/a	PRE	A		110	99.0	20.0	99.0	50.0	25.0	80.0	60.0
	PROWL H20	3.8 SC		32.0 oz/a	PRE	A		202	99.0	15.0	99.0	80.0	15.0	80.0	65.0
								305	99.0	20.0	99.0	90.0	25.0	99.0	95.0
								408	99.0	20.0	99.0	85.0	20.0	99.0	95.0
								Mean =	99.0	18.8	99.0	76.3	21.3	89.5	78.8
11	TRICOR	4 F		8.0 oz/a	PRE	A		111	.	.	.	.	.	.	.
	ZIDUA	4.17 SC		2.5 oz/a	PRE	A		208	99.0	10.0	99.0	60.0	10.0	99.0	65.0
								301	99.0	10.0	99.0	60.0	0.0	99.0	65.0
								409	99.0	15.0	99.0	65.0	0.0	99.0	65.0
								Mean =	99.0	11.7	99.0	61.7	3.3	99.0	65.0



# University of Georgia

PREEMERGENCE WEED CONTROL IN SOYBEANS WITH HM-1899A, INTIMIDATOR, TENDOVO, BOUNDARY, VALOR + ZIDUA, TRICOR + PROWL, AND TRICOR + ZIDUA			
Trial ID:	SB-05-23	Study Dir.:	ZACH TAYLOR
Location:	PONDER FARM	Investigator:	Eric P. Prostko

<u>Rating Unit</u> % = PERCENT
-----------------------------------