

University of Georgia

HALEX GT WITH OR WITHOUT INTERLOCK AND NIS

Trial ID: CN-10-17 Study Dir.: WILSON FAIRCLOTH/TEEL WARBINGTON
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (.78211 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Form Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC								101	202	304	405
2	HALEX GT	4.39 L		58.0 oz/a		POST	A	45.31 ml/mx	102	205	303	401
	AATREX	4 L		64.0 oz/a		POST	A	49.99 ml/mx				
	NIS (ADEPT)			0.25 % v/v		POST	A	3.75 ml/mx				
3	HALEX GT	4.39 L		58.0 oz/a		POST	A	45.31 ml/mx	103	204	302	404
	AATREX	4 L		64.0 oz/a		POST	A	49.99 ml/mx				
	INTERLOCK			0.208 % v/v		POST	A	3.12 ml/mx				
4	HALEX GT	4.39 L		58.0 oz/a		POST	A	45.31 ml/mx	104	203	301	403
	AATREX	4 L		64.0 oz/a		POST	A	49.99 ml/mx				
	INTERLOCK			0.208 % v/v		POST	A	3.12 ml/mx				
	NIS (ADEPT)			0.25 % v/v		POST	A	3.75 ml/mx				
5	ROUNDUP P-MAX	5.5 SL		32.0 oz/a		POST	A	25.0 ml/mx	105	201	305	402
	AATREX	4 L		64.0 oz/a		POST	A	49.99 ml/mx				
	PROWL H20	3.8 CS		32.0 oz/a		POST	A	25.0 ml/mx				

Sort Order: Treatment

Trial Comments

0.208% = 4 OZ/A

HALEX GT = S-MOC (2.09 LBS) + MESOTRIONE (0.209 LBS) + GLYPHOSATE (2.09 LBS)

INTERLOCK = DEPOSITION AID, CANOPY PENETRATING & DRIFT CONTROL AGENT (WINFIELD)

HARVEST DATE: AUGUST 23
 HARVEST MOISTURE: 15.68%
 YIELD ADJUSTED TO 15.5%

FINAL CORN PLANT POPULATION: 27,878

SUMMARY:

- 1) GENERALLY, THE ADDITION OF INTERLOCK AND/OR NIS TO HALEX GT + ATRAZINE DID NOT SIGNIFICANTLY INCREASE CORN INJURY.
- 2) AT 7 DAT, HALEX GT + ATRAZINE + INTERLOCK +/- NIS, CAUSED MORE CROP INJURY THAN ROUNDUP P-MAX + ATRAZINE + PROWL.
- 3) ALL HERBICIDE TREATMENTS PROVIDED EXCELLENT CONTROL (>96%) OF PALMER AMARANTH AND ANNUAL GRASSES.
- 4) ALL HERBICIDE TREATMENTS RESULTED IN SIGNIFICANTLY HIGHER YIELDS THAN THE NTC BUT WERE NOT DIFFERENT FROM EACH OTHER.

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HALEX GT WITH OR WITHOUT INTERLOCK AND NIS

Trial ID: CN-10-17 Study Dir.: WILSON FAIRCLOTH/TEEL WARBINGTON
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: WILSON FAIRCLOTH/TEEL WARBINGT **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS T.MILLET/CRAB/GOOSE/CROW

Crop 1: ZEAMA **Field Corn** **Variety:** DKC 66-59 (VT2P) **Planting Date:** Mar-28-17
Planting Method: MONOSEM **Rate:** 33880 SEED/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 36 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: ACCELERON SEED TRT

Previous: Crops	Pesticides	Year
1. SOYBEAN	2016	_____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.80 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 5.9 **CEC:** 3.0 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-23-17	_____	0.17	IN	RAINFALL	_____	_____
2. Apr-26-17	_____	0.50	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. May-1-17	_____	0.1	IN	RAINFALL	_____	_____
4. May-2-17	_____	0.75	IN	SPRINKLER - LATERAL MOVE	_____	_____
5. May-2-17	_____	0.01	IN	RAINFALL	_____	_____
6. May-4-17	_____	1.47	IN	RAINFALL	_____	_____

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date: Apr-24-17	_____	_____	_____	_____	_____	_____
Time of Day: 7:00 AM	_____	_____	_____	_____	_____	_____
Application Method: BROADCAST	_____	_____	_____	_____	_____	_____
Application Timing: POST	_____	_____	_____	_____	_____	_____
Applic. Placement: FOLIAGE	_____	_____	_____	_____	_____	_____
Air Temp., Unit: 54 F	_____	_____	_____	_____	_____	_____
% Relative Humidity: 97	_____	_____	_____	_____	_____	_____
Wind Velocity, Unit: 3 MPH	_____	_____	_____	_____	_____	_____
Dew Presence (Y/N): Y	_____	_____	_____	_____	_____	_____
Water Hardness: ---	_____	_____	_____	_____	_____	_____
Soil Temp., Unit: _____	_____	_____	_____	_____	_____	_____
Soil Moisture: OPTIMUM	_____	_____	_____	_____	_____	_____
% Cloud Cover: 100	_____	_____	_____	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ZEAMA	_____	_____	_____	_____	_____	_____
Stage Scale: V6	_____	_____	_____	_____	_____	_____
Height, Unit: 12 IN	_____	_____	_____	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA 0.5-7"	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 2	Stage: AGRASS 3"	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	35	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	18	IN	_____	_____	_____	_____	_____
Nozzles/Row:	2	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	72	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	_____	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):	-	-	-	-	-	-	-

Trt No	Treatment Application Comment
_____	_____

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HALEX GT WITH OR WITHOUT INTERLOCK AND NIS																				
Trial ID: CN-10-17			Study Dir.: WILSON FAIRCLOTH/TEEL WARBINGTON																	
Location: PONDER FARM			Investigator: Eric P. Prostko																	
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.	----- ZEAMA PLANT C STUNT PERCENT May-1-17 7 DA-A	----- ZEAMA PLANT C CHLORO PERCENT May-1-17 7 DA-A	AMAPA ----- CONTROL PERCENT May-1-17 7 DA-A	A.GRASS ----- CONTROL PERCENT May-1-17 7 DA-A	----- ZEAMA PLANT C STUNT PERCENT May-8-17 14 DA-A	AMAPA ----- CONTROL PERCENT May-8-17 14 DA-A	A.GRASS ----- CONTROL PERCENT May-8-17 14 DA-A					
Trt Treatment	Form	Form	Rate	Grow	Appl								1	2	3	4	5	6	7	
No. Name	Conc	Type	Unit	Stg	Code															
1	NTC												0.0 b	0.0 c	0.0 b	0.0 c	0.0 a	0.0 b	0.0 b	
2	HALEX GT	4.39 L	58.0 oz/a	POST	A								3.8 ab	12.5 ab	100.0 a	75.0 a	7.5 a	100.0 a	95.0 a	
	AATREX	4 L	64.0 oz/a	POST	A															
	NIS (ADEPT)		0.25 % v/v	POST	A															
3	HALEX GT	4.39 L	58.0 oz/a	POST	A								6.3 ab	15.0 a	100.0 a	67.5 b	7.5 a	100.0 a	95.0 a	
	AATREX	4 L	64.0 oz/a	POST	A															
	INTERLOCK		0.208 % v/v	POST	A															
4	HALEX GT	4.39 L	58.0 oz/a	POST	A								10.0 a	17.5 a	100.0 a	67.5 b	10.0 a	100.0 a	92.5 a	
	AATREX	4 L	64.0 oz/a	POST	A															
	INTERLOCK		0.208 % v/v	POST	A															
	NIS (ADEPT)		0.25 % v/v	POST	A															
5	ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST	A								1.3 b	7.5 b	100.0 a	67.5 b	0.0 a	100.0 a	95.0 a	
	AATREX	4 L	64.0 oz/a	POST	A															
	PROWL H20	3.8 CS	32.0 oz/a	POST	A															
LSD P=.10													6.22	5.64	.	6.20	12.23	.	2.82	
Standard Deviation													4.94	4.47	0.00	4.92	9.70	0.00	2.24	
CV													116.17	42.59	0.0	8.86	194.08	0.0	2.96	
Grand Mean													4.25	10.50	80.00	55.50	5.00	80.00	75.50	
Bartlett's X2													4.462	1.888	0.0	1.142	0.91	0.0	0.0	
P(Bartlett's X2)													0.107	0.596	.	0.767	0.634	.	.	
Replicate F													0.872	2.250	0.000	1.862	0.248	0.000	1.000	
Replicate Prob(F)													0.4826	0.1349	1.0000	0.1898	0.8614	1.0000	0.4262	
Treatment F													2.641	9.625	0.000	161.069	0.929	0.000	1426.000	
Treatment Prob(F)													0.0862	0.0010	1.0000	0.0001	0.4792	1.0000	0.0001	

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=10,11
 Could not calculate LSD (% mean diff) for columns 3,6,8 because error mean square = 0.

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Weed Code						AMAPA	A.GRASS	-----	-----	
Crop Code						-----	-----	ZEAMA	ZEAMA	
Part Rated								PLOT -	PLOT -	
Rating Data Type						CONTROL	CONTROL	YIELD	YIELD	
Rating Unit						PERCENT	PERCENT	LBS/PLOT	BU/A	
Rating Date						May-18-17	May-18-17	Aug-23-17	Aug-23-17	
Trt-Eval Interval						24 DA-A	24 DA-A	121 DA-A	121 DA-A	
PRM Data Type								TY1		
# Subsamples, Dec.								- 0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	8	9	10	11
1	NTC						0.0 b	0.0 b	40.3 b	209 b
2	HALEX GT	4.39	L	58.0 oz/a	POST	A	100.0 a	97.5 a	45.8 a	237 a
	AATREX	4	L	64.0 oz/a	POST	A				
	NIS (ADEPT)			0.25 % v/v	POST	A				
3	HALEX GT	4.39	L	58.0 oz/a	POST	A	100.0 a	97.5 a	47.3 a	245 a
	AATREX	4	L	64.0 oz/a	POST	A				
	INTERLOCK			0.208 % v/v	POST	A				
4	HALEX GT	4.39	L	58.0 oz/a	POST	A	100.0 a	96.3 a	46.3 a	239 a
	AATREX	4	L	64.0 oz/a	POST	A				
	INTERLOCK			0.208 % v/v	POST	A				
	NIS (ADEPT)			0.25 % v/v	POST	A				
5	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	A	100.0 a	100.0 a	45.3 a	234 a
	AATREX	4	L	64.0 oz/a	POST	A				
	PROWL H20	3.8	CS	32.0 oz/a	POST	A				
LSD P=.10						.	4.23	2.93	15.1	
Standard Deviation						0.00	3.35	2.30	11.9	
CV						0.0	4.29	5.12	5.12	
Grand Mean						80.00	78.25	44.97	232.7	
Bartlett's X2						0.0	3.687	17.236	17.236	
P(Bartlett's X2)						.	0.158	0.002*	0.002*	
Replicate F						0.000	2.481	1.712	1.712	
Replicate Prob(F)						1.0000	0.1109	0.2220	0.2220	
Treatment F						0.000	681.000	5.467	5.467	
Treatment Prob(F)						1.0000	0.0001	0.0113	0.0113	

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=10,11
 Could not calculate LSD (% mean diff) for columns 3,6,8 because error mean square = 0.

University of Georgia

HALEX GT WITH OR WITHOUT INTERLOCK AND NIS

Trial ID: CN-10-17 Study Dir.: WILSON FAIRCLOTH/TEEL WARBINGTON
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

C = Crop is Part Rated

PRM Data Type

TY1 = 5.174668*[10]

University of Georgia

HALEX GT WITH OR WITHOUT INTERLOCK AND NIS

Trial ID: CN-10-17 Study Dir.: WILSON FAIRCLOTH/TEEL WARBINGTON
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	-----	AMAPA	A.GRASS	-----	AMAPA			
Crop Code						ZEAMA	ZEAMA	-----	-----	ZEAMA	-----			
Part Rated						PLANT C	PLANT C			PLANT C				
Rating Data Type						STUNT	CHLORO	CONTROL	CONTROL	STUNT	CONTROL			
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Rating Date						May-1-17	May-1-17	May-1-17	May-1-17	May-8-17	May-8-17			
Trt-Eval Interval						7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A			
PRM Data Type														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								202	0.0	0.0	0.0	0.0	0.0	0.0
								304	0.0	0.0	0.0	0.0	0.0	0.0
								405	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
2	HALEX GT	4.39 L		58.0 oz/a	POST A			102	5.0	15.0	100.0	85.0	10.0	100.0
	AATREX	4 L		64.0 oz/a	POST A			205	0.0	10.0	100.0	75.0	0.0	100.0
	NIS (ADEPT)			0.25 % v/v	POST A			303	10.0	20.0	100.0	75.0	20.0	100.0
								401	0.0	5.0	100.0	65.0	0.0	100.0
								Mean =	3.8	12.5	100.0	75.0	7.5	100.0
3	HALEX GT	4.39 L		58.0 oz/a	POST A			103	20.0	20.0	100.0	65.0	30.0	100.0
	AATREX	4 L		64.0 oz/a	POST A			204	5.0	20.0	100.0	65.0	0.0	100.0
	INTERLOCK			0.208 % v/v	POST A			302	0.0	10.0	100.0	65.0	0.0	100.0
								404	0.0	10.0	100.0	75.0	0.0	100.0
								Mean =	6.3	15.0	100.0	67.5	7.5	100.0
4	HALEX GT	4.39 L		58.0 oz/a	POST A			104	10.0	20.0	100.0	75.0	0.0	100.0
	AATREX	4 L		64.0 oz/a	POST A			203	10.0	25.0	100.0	65.0	15.0	100.0
	INTERLOCK			0.208 % v/v	POST A			301	10.0	10.0	100.0	65.0	5.0	100.0
	NIS (ADEPT)			0.25 % v/v	POST A			403	10.0	15.0	100.0	65.0	20.0	100.0
								Mean =	10.0	17.5	100.0	67.5	10.0	100.0
5	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			105	0.0	10.0	100.0	75.0	0.0	100.0
	AATREX	4 L		64.0 oz/a	POST A			201	5.0	10.0	100.0	65.0	0.0	100.0
	PROWL H20	3.8 CS		32.0 oz/a	POST A			305	0.0	5.0	100.0	65.0	0.0	100.0
								402	0.0	5.0	100.0	65.0	0.0	100.0
								Mean =	1.3	7.5	100.0	67.5	0.0	100.0

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Weed Code						A.GRASS	AMAPA	A.GRASS	-----	-----			
Crop Code						-----	-----	-----	ZEAMA	ZEAMA			
Part Rated									PLOT -	PLOT -			
Rating Data Type						CONTROL	CONTROL	CONTROL	YIELD	YIELD			
Rating Unit						PERCENT	PERCENT	PERCENT	LBS/PLOT	BU/A			
Rating Date						May-8-17	May-18-17	May-18-17	Aug-23-17	Aug-23-17			
Trt-Eval Interval						14 DA-A	24 DA-A	24 DA-A	121 DA-A	121 DA-A			
PRM Data Type										TY1			
# Subsamples, Dec.										- 0			
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	7	8	9	10	11
1	NTC						101		0.0	0.0	0.0	44.0	228
							202		0.0	0.0	0.0	34.0	176
							304		0.0	0.0	0.0	43.0	223
							405		0.0	0.0	0.0	.	.
							Mean =		0.0	0.0	0.0	40.3	209
2	HALEX GT	4.39	L	58.0	oz/a	POST A	102		95.0	100.0	100.0	46.0	238
	AATREX	4	L	64.0	oz/a	POST A	205		95.0	100.0	95.0	44.0	228
	NIS (ADEPT)			0.25	% v/v	POST A	303		95.0	100.0	100.0	44.0	228
							401		95.0	100.0	95.0	49.0	254
							Mean =		95.0	100.0	97.5	45.8	237
3	HALEX GT	4.39	L	58.0	oz/a	POST A	103		95.0	100.0	100.0	46.0	238
	AATREX	4	L	64.0	oz/a	POST A	204		95.0	100.0	95.0	46.0	238
	INTERLOCK			0.208	% v/v	POST A	302		95.0	100.0	100.0	48.0	248
							404		95.0	100.0	95.0	49.0	254
							Mean =		95.0	100.0	97.5	47.3	245
4	HALEX GT	4.39	L	58.0	oz/a	POST A	104		95.0	100.0	100.0	46.0	238
	AATREX	4	L	64.0	oz/a	POST A	203		95.0	100.0	85.0	46.0	238
	INTERLOCK			0.208	% v/v	POST A	301		95.0	100.0	100.0	46.0	238
	NIS (ADEPT)			0.25	% v/v	POST A	403		85.0	100.0	100.0	47.0	243
							Mean =		92.5	100.0	96.3	46.3	239
5	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST A	105		95.0	100.0	100.0	45.0	233
	AATREX	4	L	64.0	oz/a	POST A	201		95.0	100.0	100.0	45.0	233
	PROWL H20	3.8	CS	32.0	oz/a	POST A	305		95.0	100.0	100.0	46.0	238
							402		95.0	100.0	100.0	45.0	233
							Mean =		95.0	100.0	100.0	45.3	234

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