

University of Georgia

RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
BARE-GROUND/NON-CROP (YEAR 2)

Trial ID: CN-01-20

Study Dir.:

Location: PONDER FARM

Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC								-	101	210	312
2	CALLISTO	4	SC	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	102	206	303
3	IMPACT	2.8	L	1.0	oz/a	PRE	A	0.7812 mL/mx	1499.2 mL	103	212	311
4	IMPACT Z	4.26	L	8.0	oz/a	PRE	A	6.249 mL/mx	1493.8 mL	104	201	304
5	ANTHEM FLEX	4	L	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	105	203	305
6	LAUDIS	3.5	SL	3.0	oz/a	PRE	A	2.343 mL/mx	1497.7 mL	106	208	309
7	PROWL H20	3.8	AS	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	107	211	306
8	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE	A	12.5 mL/mx	1487.5 mL	108	209	307
9	ZIDUA	4.17	SC	2.5	oz/a	PRE	A	1.953 mL/mx	1498.0 mL	109	207	301
10	WARRANT	3	ME	48.0	oz/a	PRE	A	37.5 mL/mx	1462.5 mL	110	202	308
11	ATRAZINE	4	L	32.0	oz/a	PRE	A	25.0 mL/mx	1475 mL	111	204	302
12	OUTLOOK	6	EC	12.8	oz/a	PRE	A	9.999 mL/mx	1490.0 mL	112	205	310

Sort Order: Replicate 1

Trial Comments

CALLISTO = MESOTRIONE

IMPACT = TOPRAMEZONE

LAUDIS = TEMBOTRIONE

IMPACT Z = TOPRAMEZONE (0.26 LBS/GAL) + ATRAZINE (4 LB/GAL)

ANTHEM FLEX 4SE = PYROXASULFONE (3.733 LBS/GAL) + CARFENTRAZONE (0.267 LBS/GAL)

LAST TILLAGE ON MARCH 30, 2020

ANNUAL GRASS: A NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDING TEXAS PANICUM, CRABGRASS, GOOSEGRASS, CROWFOOTGRASS.

FGCC = FRACTIONAL GREEN CANOPY COVER (CANOPEO PHONE APP)

SUMMARY:

1) ON MAY 15 (45 DAT) THE FOLLOWING TREATMENTS PROVIDED AT LEAST 86%** RESIDUAL CONTROL OF PALMER AMARANTH:

A) ANTHEM FLEX = 95% CONTROL

B) PROWL H20 = 95% CONTROL

C) WARRANT = 96% CONTROL

D) OUTLOOK = 90% CONTROL

E) DUAL II MAGNUM = 88% CONTROL

F) ZIDUA = 86% CONTROL

**** THESE TREATMENTS WERE NOT SIGNIFICANTLY DIFFERENT FROM EACH OTHER.**

2) RESIDUAL CONTROL OF PALMER AMARANTH (PA) AT THE SAME TIME WITH HPPD HERBICIDES WAS ONLY 53-73%. PA RESIDUAL CONTROL WITH LAUDIS WAS LESS THAN CONTROL WITH CALLISTO OR IMPACT.

3) ON MAY 15 (45 DAT), THE ONLY TREATMENTS THAT PROVIDED AT LEAST 80% RESIDUAL CONTROL OF ANNUAL GRASSES WERE ANTHEM FLEX (80%) AND PROWL H20 (98%). ANNUAL GRASS CONTROL WITH GROUP 15/PROWL HERBICIDES WAS AS FOLLOWS:

PROWL H20 > ANTHEM FLEX = OUTLOOK = ZIDUA > DUAL MAGNUM = WARRANT

4) AT THE SAME TIME, IMPACT PROVIDED BETTER RESIDUAL CONTROL OF ANNUAL GRASSES THAN THE OTHER HPPD HERBICIDES BUT CONTROL WAS STILL UNACCEPTABLE (60%).

GENERAL TRIAL INFORMATION

Study Director: _____

Title: _____

Affiliation: _____

Postal Code: _____

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP (YEAR 2)			
Trial ID:	CN-01-20	Study Dir.:	
Location:	PONDER FARM	Investigator:	Eric P. Prostko
Investigator: Eric P. Prostko		Title: _____	
Affiliation: _____		Postal Code: _____	
Trial Status: E	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	TX PANIC/CROW/CRAB/GOOSE	
Weed 3. RAPRA WILD RADISH	4. _____	_____	
Crop 1: _____	BAREGROUND	Variety: _____	Planting Date: _____
Planting Method: _____	Rate: _____	Depth: _____	
Perennial Age: _____	Row Spacing: _____	Seed Bed: _____	
Soil Temperature: _____	Soil Moisture: _____	Emergence Date: _____	
Plot Width, Unit: 6 FT	Plot Length, Unit: 25 FT	Reps: 3	
Site Type: _____		Study Design: RACOB	
Tillage Type: CONVENTIONAL			
Trial Initiation Comments: _____			
Previous: Crops	Pesticides	Year	2019
1. FALLOW _____			

MAINTENANCE							
Field Prep./Maintenance: _____							
	Form	Form	Form	Rate			
No. Date	Treatment Name	Conc	Unit	Type	Rate	Unit	
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION					
Texture: SAND	% OM: 0.48	% Sand: 94	% Silt: 2	% Clay: 4	
pH: 6.0	CEC: 1.9	Soil Name: FUQUAY	Fertility Level:	GOOD	
MOISTURE CONDITIONS					
On: Date	Time	Amount	Unit	Type	Interval Unit
1. Mar-25-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____
2. Mar-31-20	_____	0.7	IN	RAINFALL	_____
3. Apr-6-20	_____	0.6	IN	SPRINKLER - LATERAL MOVE	_____
4. Apr-8-20	_____	0.3	IN	RAINFALL	_____
5. Apr-13-20	_____	0.9	IN	RAINFALL	_____
6. Apr-18-20	_____	0.04	IN	RAINFALL	_____
7. Apr-19-20	_____	0.80	IN	RAINFALL	_____
8. Apr-20-20	_____	0.65	IN	RAINFALL	_____
9. Apr-23-20	_____	2.4	IN	RAINFALL	_____
10. Apr-30-20	_____	0.9	IN	RAINFALL	_____
11. May-17-20	_____	0.11	IN	RAINFALL	_____
12. May-20-20	_____	1.3	IN	RAINFALL	_____
13. May-21-20	_____	1.2	IN	RAINFALL	_____
Overall Moisture Conditions: _____					
Closest Weather Station: _____			Distance: _____	Unit: _____	

APPLICATION DESCRIPTION						
	A	B	C	D	E	F
Application Date:	Mar-31-20	_____	_____	_____	_____	_____
Time of Day:	7:30 AM	_____	_____	_____	_____	_____
Application Method:	BROADCAST	_____	_____	_____	_____	_____
Application Timing:	PRE	_____	_____	_____	_____	_____
Applic. Placement:	SOIL	_____	_____	_____	_____	_____
Air Temp., Unit:	62 F	_____	_____	_____	_____	_____
% Relative Humidity:	80	_____	_____	_____	_____	_____
Wind Velocity, Unit:	1 MPH	_____	_____	_____	_____	_____
Dew Presence (Y/N):	N	_____	_____	_____	_____	_____
Water Hardness:	--	_____	_____	_____	_____	_____
Soil Temp., Unit:	70 F	_____	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	_____	_____	_____	_____	_____
% Cloud Cover:	100	_____	_____	_____	_____	_____

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
BARE-GROUND/NON-CROP (YEAR 2)

Trial ID: CN-01-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:						
Stage Scale:						
Height, Unit:						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage: AMAPA						
Stage Scale:						
Density, Unit:						
Weed 2 Stage: AGRASS						
Stage Scale:						
Density, Unit:						
Weed 3 Stage: RAPRA						
Stage Scale:						
Density, Unit:						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment: BACKPACK						
Operating Pressure: 30						
Nozzle Type: AIXR						
Nozzle Size: 11002						
Nozzle Spacing, Unit: 15	IN					
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit: 60	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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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP (YEAR 2)										
Trial ID: CN-01-20		Study Dir.: Eric P. Prostko								
Location: PONDER FARM										
Weed Code	AMAPA	PANTE	RAPRA	CYPSP	DEDTO	IPOSP	WEEDS TOTAL	AMAPA	PANTE	
Crop Code	-----	-----	-----	-----	-----	-----		-----	-----	
Rating Data Type										
Rating Unit	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2
Rating Date	Apr-13-20	Apr-13-20	Apr-13-20	Apr-14-20	Apr-13-20	Apr-13-20	Apr-13-20	Apr-21-20	Apr-21-20	
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	14 DA-A	13 DA-A	13 DA-A	13 DA-A	21 DA-A	21 DA-A	
PRM Data Type							T1			
# Subsamples, Dec.	- 1	- 1	- 1	- 1	- 1		- 1			
Trt Treatment	Rate Appl									
No. Name	Rate Unit Code	1	2	3	4	5	6	7	8	9
1 NTC		0.7 a	25.3 a	0.0 b	1.0 -	0.0 -	0.0 b	27.0 a	4.3 a	15.0 ab
2 CALLISTO	3.0 oz/a A	0.0 b	4.3 c	0.3 ab	0.0 -	0.0 -	0.0 b	4.7 cd	0.3 bc	8.3 bcd
3 IMPACT	1.0 oz/a A	0.0 b	2.0 c	0.3 ab	1.7 -	0.3 -	0.0 b	4.3 cd	0.0 c	1.3 de
4 IMPACT Z	8.0 oz/a A	0.0 b	3.0 c	0.0 b	1.7 -	0.0 -	0.0 b	4.7 cd	0.0 c	2.3 de
5 ANTHEM FLEX	3.0 oz/a A	0.0 b	1.3 c	0.0 b	0.0 -	0.0 -	0.0 b	1.3 d	0.0 c	0.3 e
6 LAUDIS	3.0 oz/a A	0.0 b	4.3 c	0.0 b	0.0 -	0.0 -	0.0 b	4.3 cd	0.3 bc	10.0 abc
7 PROWL H20	32.0 oz/a A	0.0 b	0.3 c	0.0 b	0.7 -	0.0 -	0.0 b	1.0 d	0.0 c	0.0 e
8 DUAL II MAGNUM	16.0 oz/a A	0.0 b	17.7 ab	0.0 b	0.0 -	0.3 -	0.0 b	18.0 ab	0.0 c	6.3 cde
9 ZIDUA	2.5 oz/a A	0.0 b	5.7 c	0.0 b	0.3 -	0.0 -	0.3 a	6.3 cd	0.0 c	5.3 cde
10 WARRANT	48.0 oz/a A	0.0 b	3.3 c	1.0 a	0.0 -	0.0 -	0.0 b	4.3 cd	0.0 c	4.3 cde
11 ATRAZINE	32.0 oz/a A	0.0 b	9.3 bc	0.7 ab	1.3 -	0.3 -	0.0 b	11.7 bc	0.7 b	17.0 a
12 OUTLOOK	12.8 oz/a A	0.0 b	3.0 c	0.0 b	0.7 -	0.0 -	0.0 b	3.7 cd	0.0 c	2.7 de
LSD P=.10		0.47	9.02	0.93	1.68	0.37	0.23	10.23	0.62	7.13
Standard Deviation		0.33	6.44	0.66	1.20	0.26	0.17	7.29	0.44	5.09
CV		600.0	96.93	339.92	196.15	313.34	600.0	95.84	93.38	83.62
Grand Mean		0.06	6.64	0.19	0.61	0.08	0.03	7.61	0.47	6.08
Levene's F			0.671	0.794	0.717	0.00		0.699	0.766	1.731
Levene's Prob(F)			0.751	0.644	0.712	0.00*		0.728	0.669	0.126
Replicate F		1.000	1.725	0.445	1.527	3.667	1.000	0.821	1.000	0.270
Replicate Prob(F)		0.3840	0.2014	0.6464	0.2393	0.0422	0.3840	0.4530	0.3840	0.7655
Treatment F		1.000	4.062	0.757	0.921	1.000	1.000	3.333	23.519	3.595
Treatment Prob(F)		0.4767	0.0025	0.6761	0.5382	0.4767	0.4767	0.0078	0.0001	0.0051

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP (YEAR 2)										
Trial ID: CN-01-20		Study Dir.: Eric P. Prostko								
Location: PONDER FARM										
Weed Code	RAPRA	CYPSP	WEEDS	FGCC	AMAPA	AGRASS	Amapa	Agrass	Total	
Crop Code	-----	-----	TOTAL		-----	---	-----	-----	Weed	
Rating Data Type	#FT2	#/FT2	#/FT2	PERCENT	CONTROL	CONTROL	Control	Control	Cover	
Rating Unit							Percent	Percent	Percent	
Rating Date	Apr-21-20	Apr-21-20	Apr-21-20	Apr-30-20	Apr-30-20	Apr-30-20	May-15-20	May-15-20	May-15-20	
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	30 DA-A	30 DA-A	30 DA-A	45 DA-A	45 DA-A	45 DA-A	
PRM Data Type			T2							
# Subsamples, Dec.			- 1	- 2						
Trt Treatment	Rate Appl									
No. Name	Rate Unit Code	10	11	12	13	14	15	16	17	18
1 NTC		0.0 -	0.3 b	19.7 a	5.45 a	0.0 d	0.0 g	0.0 e	0.0 g	73.3 a
2 CALLISTO	3.0 oz/a A	0.0 -	0.0 b	8.7 bc	0.87 bcd	97.7 ab	30.0 ef	66.7 c	6.7 fg	61.7 ab
3 IMPACT	1.0 oz/a A	0.3 -	2.0 a	3.7 bcd	3.60 ab	97.7 ab	85.0 ab	73.3 c	60.0 cd	43.3 de
4 IMPACT Z	8.0 oz/a A	0.7 -	0.3 b	3.3 bcd	1.07 bcd	99.0 a	53.3 d	65.0 cd	38.3 e	45.0 cde
5 ANTHEM FLEX	3.0 oz/a A	0.0 -	0.0 b	0.3 d	0.25 d	99.0 a	95.0 a	95.0 a	80.0 b	8.3 g
6 LAUDIS	3.0 oz/a A	0.0 -	0.0 b	10.3 b	0.72 bcd	94.7 bc	45.0 de	53.3 d	21.7 f	56.7 bc
7 PROWL H20	32.0 oz/a A	0.0 -	1.0 ab	1.0 cd	1.11 bcd	99.0 a	97.7 a	94.7 a	97.7 a	16.7 fg
8 DUAL II MAGNUM	16.0 oz/a A	0.0 -	0.0 b	6.3 bcd	0.63 cd	99.0 a	75.0 bc	88.3 ab	51.7 de	40.0 e
9 ZIDUA	2.5 oz/a A	0.0 -	0.3 b	5.7 bcd	1.06 bcd	99.0 a	91.7 ab	86.3 ab	68.3 bc	18.3 fg
10 WARRANT	48.0 oz/a A	0.7 -	0.0 b	5.0 bcd	3.28 abc	99.0 a	60.0 cd	96.3 a	45.0 de	53.3 bcd
11 ATRAZINE	32.0 oz/a A	1.0 -	0.3 b	19.0 a	1.62 bcd	91.7 c	23.3 f	76.7 bc	21.7 f	70.0 a
12 OUTLOOK	12.8 oz/a A	1.3 -	0.3 b	4.3 bcd	1.06 bcd	99.0 a	93.3 a	90.0 a	71.7 bc	21.7 f
LSD P=.10		1.35	1.36	7.93	2.908	3.08	18.21	12.59	16.09	12.20
Standard Deviation		0.97	0.97	5.66	2.074	2.19	12.99	8.98	11.47	8.70
CV		289.59	248.89	77.71	120.14	2.45	20.8	12.17	24.47	20.54
Grand Mean		0.33	0.39	7.28	1.727	89.56	62.44	73.81	46.89	42.36
Levene's F		0.706	1.007	1.24	0.727	1.086	1.284	0.551	0.575	1.237
Levene's Prob(F)		0.721	0.469	0.315	0.703	0.412	0.291	0.848	0.83	0.317
Replicate F		1.163	1.453	0.600	0.006	2.359	2.421	1.869	0.497	1.220
Replicate Prob(F)		0.3312	0.2555	0.5575	0.9939	0.1180	0.1121	0.1780	0.6150	0.3144
Treatment F		0.715	1.089	3.716	1.690	498.756	18.838	27.144	20.940	18.945
Treatment Prob(F)		0.7122	0.4130	0.0043	0.1421	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP (YEAR 2)			
Trial ID:	CN-01-20	Study Dir.:	
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code
 AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
 PANTE = PANICUM, TEXAS / PANICUM TEXANUM BUCKL.
 RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.
 DEDTO = BEGGARWEED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.

PRM Data Type
 T1 = [C1]+[C2]+[C3]+[C4]+[C5]+[C6]
 T2 = [8]+[9]+[10]+[11]

Weed Code		AMAPA	PANTE	RAPRA	CYPSP	DEDTO	IPOSP	WEEDS	AMAPA
Crop Code		----	----	----	----	----	----	TOTAL	----
Rating Data Type									
Rating Unit		#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2	#/FT2
Rating Date		Apr-13-20	Apr-13-20	Apr-13-20	Apr-14-20	Apr-13-20	Apr-13-20	Apr-13-20	Apr-21-20
Trt-Eval Interval		13 DA-A	13 DA-A	13 DA-A	14 DA-A	13 DA-A	13 DA-A	13 DA-A	21 DA-A
PRM Data Type								T1	
# Subsamples, Dec.		- 1	- 1	- 1	- 1	- 1		- 1	
Trt Treatment	Rate Appl								
No. Name	Rate Unit Code Plot	1	2	3	4	5	6	7	8
1 NTC		101 0.0	15.0	0.0	0.0	0.0	0.0	15.0	4.0
		210 0.0	14.0	0.0	0.0	0.0	0.0	14.0	5.0
		312 2.0	47.0	0.0	3.0	0.0	0.0	52.0	4.0
	Mean =	0.7	25.3	0.0	1.0	0.0	0.0	27.0	4.3
2 CALLISTO	3.0 oz/a A	102 0.0	3.0	1.0	0.0	0.0	0.0	4.0	0.0
		206 0.0	10.0	0.0	0.0	0.0	0.0	10.0	1.0
		303 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mean =	0.0	4.3	0.3	0.0	0.0	0.0	4.7	0.3
3 IMPACT	1.0 oz/a A	103 0.0	3.0	0.0	2.0	1.0	0.0	6.0	0.0
		212 0.0	2.0	0.0	3.0	0.0	0.0	5.0	0.0
		311 0.0	1.0	1.0	0.0	0.0	0.0	2.0	0.0
	Mean =	0.0	2.0	0.3	1.7	0.3	0.0	4.3	0.0
4 IMPACT Z	8.0 oz/a A	104 0.0	4.0	0.0	4.0	0.0	0.0	8.0	0.0
		201 0.0	5.0	0.0	1.0	0.0	0.0	6.0	0.0
		304 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mean =	0.0	3.0	0.0	1.7	0.0	0.0	4.7	0.0
5 ANTHEM FLEX	3.0 oz/a A	105 0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
		203 0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0
		305 0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
	Mean =	0.0	1.3	0.0	0.0	0.0	0.0	1.3	0.0
6 LAUDIS	3.0 oz/a A	106 0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
		208 0.0	10.0	0.0	0.0	0.0	0.0	10.0	0.0
		309 0.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0
	Mean =	0.0	4.3	0.0	0.0	0.0	0.0	4.3	0.3
7 PROWL H20	32.0 oz/a A	107 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		211 0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
		306 0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
	Mean =	0.0	0.3	0.0	0.7	0.0	0.0	1.0	0.0
8 DUAL II MAGNUM	16.0 oz/a A	108 0.0	13.0	0.0	0.0	1.0	0.0	14.0	0.0
		209 0.0	14.0	0.0	0.0	0.0	0.0	14.0	0.0
		307 0.0	26.0	0.0	0.0	0.0	0.0	26.0	0.0
	Mean =	0.0	17.7	0.0	0.0	0.3	0.0	18.0	0.0
9 ZIDUA	2.5 oz/a A	109 0.0	5.0	0.0	1.0	0.0	0.0	6.0	0.0
		207 0.0	8.0	0.0	0.0	0.0	1.0	9.0	0.0
		301 0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0
	Mean =	0.0	5.7	0.0	0.3	0.0	0.3	6.3	0.0
10 WARRANT	48.0 oz/a A	110 0.0	2.0	3.0	0.0	0.0	0.0	5.0	0.0
		202 0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
		308 0.0	7.0	0.0	0.0	0.0	0.0	7.0	0.0
	Mean =	0.0	3.3	1.0	0.0	0.0	0.0	4.3	0.0
11 ATRAZINE	32.0 oz/a A	111 0.0	5.0	0.0	4.0	1.0	0.0	10.0	2.0
		204 0.0	6.0	2.0	0.0	0.0	0.0	8.0	0.0
		302 0.0	17.0	0.0	0.0	0.0	0.0	17.0	0.0
	Mean =	0.0	9.3	0.7	1.3	0.3	0.0	11.7	0.7
12 OUTLOOK	12.8 oz/a A	112 0.0	1.0	0.0	2.0	0.0	0.0	3.0	0.0
		205 0.0	3.0	0.0	0.0	0.0	0.0	3.0	0.0
		310 0.0	5.0	0.0	0.0	0.0	0.0	5.0	0.0
	Mean =	0.0	3.0	0.0	0.7	0.0	0.0	3.7	0.0

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP (YEAR 2)

Trial ID: CN-01-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code		PANTE	RAPRA	CYPSP	WEEDS	FGCC	AMAPA	AGRASS	Amapa
Crop Code		----	----	----	TOTAL		----	---	----
Rating Data Type		#/FT2	#/FT2	#/FT2	#/FT2	PERCENT	CONTROL	CONTROL	Control
Rating Unit		Apr-21-20	Apr-21-20	Apr-21-20	Apr-21-20	Apr-30-20	Apr-30-20	Apr-30-20	Percent
Rating Date		21 DA-A	21 DA-A	21 DA-A	21 DA-A	30 DA-A	30 DA-A	30 DA-A	
Trt-Eval Interval					T2				May-15-20
PRM Data Type					- 1	- 2			45 DA-A
# Subsamples, Dec.									
Trt Treatment	Rate Appl								
No. Name	Rate Unit Code Plot	9	10	11	12	13	14	15	16
1 NTC		101 10.0	0.0	0.0	14.0	2.72	0.0	0.0	0.0
		210 15.0	0.0	0.0	20.0	2.64	0.0	0.0	0.0
		312 20.0	0.0	1.0	25.0	11.00	0.0	0.0	0.0
	Mean =	15.0	0.0	0.3	19.7	5.45	0.0	0.0	0.0
2 CALLISTO	3.0 oz/a A	102 13.0	0.0	0.0	13.0	1.08	95.0	30.0	75.0
		206 8.0	0.0	0.0	9.0	1.17	99.0	0.0	65.0
		303 4.0	0.0	0.0	4.0	0.36	99.0	60.0	60.0
	Mean =	8.3	0.0	0.0	8.7	0.87	97.7	30.0	66.7
3 IMPACT	1.0 oz/a A	103 2.0	0.0	5.0	7.0	1.44	99.0	85.0	85.0
		212 1.0	0.0	1.0	2.0	6.26	95.0	85.0	70.0
		311 1.0	1.0	0.0	2.0	3.09	99.0	85.0	65.0
	Mean =	1.3	0.3	2.0	3.7	3.60	97.7	85.0	73.3
4 IMPACT Z	8.0 oz/a A	104 2.0	0.0	1.0	3.0	0.36	99.0	65.0	75.0
		201 4.0	2.0	0.0	6.0	2.66	99.0	30.0	65.0
		304 1.0	0.0	0.0	1.0	0.20	99.0	65.0	55.0
	Mean =	2.3	0.7	0.3	3.3	1.07	99.0	53.3	65.0
5 ANTHEM FLEX	3.0 oz/a A	105 0.0	0.0	0.0	0.0	0.20	99.0	95.0	95.0
		203 0.0	0.0	0.0	0.0	0.39	99.0	95.0	95.0
		305 1.0	0.0	0.0	1.0	0.15	99.0	95.0	95.0
	Mean =	0.3	0.0	0.0	0.3	0.25	99.0	95.0	95.0
6 LAUDIS	3.0 oz/a A	106 0.0	0.0	0.0	1.0	0.61	90.0	30.0	50.0
		208 23.0	0.0	0.0	23.0	0.46	95.0	40.0	50.0
		309 7.0	0.0	0.0	7.0	1.10	99.0	65.0	60.0
	Mean =	10.0	0.0	0.0	10.3	0.72	94.7	45.0	53.3
7 PROWL H20	32.0 oz/a A	107 0.0	0.0	0.0	0.0	0.66	99.0	95.0	90.0
		211 0.0	0.0	3.0	3.0	2.26	99.0	99.0	99.0
		306 0.0	0.0	0.0	0.0	0.40	99.0	99.0	95.0
	Mean =	0.0	0.0	1.0	1.0	1.11	99.0	97.7	94.7
8 DUAL II MAGNUM	16.0 oz/a A	108 8.0	0.0	0.0	8.0	0.85	99.0	65.0	95.0
		209 6.0	0.0	0.0	6.0	0.73	99.0	85.0	95.0
		307 5.0	0.0	0.0	5.0	0.30	99.0	75.0	75.0
	Mean =	6.3	0.0	0.0	6.3	0.63	99.0	75.0	88.3
9 ZIDUA	2.5 oz/a A	109 4.0	0.0	1.0	5.0	0.76	99.0	95.0	95.0
		207 11.0	0.0	0.0	11.0	0.28	99.0	90.0	65.0
		301 1.0	0.0	0.0	1.0	2.14	99.0	90.0	99.0
	Mean =	5.3	0.0	0.3	5.7	1.06	99.0	91.7	86.3
10 WARRANT	48.0 oz/a A	110 4.0	0.0	0.0	4.0	7.41	99.0	65.0	99.0
		202 3.0	2.0	0.0	5.0	1.74	99.0	65.0	95.0
		308 6.0	0.0	0.0	6.0	0.70	99.0	50.0	95.0
	Mean =	4.3	0.7	0.0	5.0	3.28	99.0	60.0	96.3
11 ATRAZINE	32.0 oz/a A	111 26.0	3.0	1.0	32.0	2.32	85.0	30.0	85.0
		204 9.0	0.0	0.0	9.0	1.21	95.0	0.0	85.0
		302 16.0	0.0	0.0	16.0	1.33	95.0	40.0	60.0
	Mean =	17.0	1.0	0.3	19.0	1.62	91.7	23.3	76.7
12 OUTLOOK	12.8 oz/a A	112 2.0	0.0	1.0	3.0	1.97	99.0	95.0	90.0
		205 3.0	4.0	0.0	7.0	0.61	99.0	90.0	85.0
		310 3.0	0.0	0.0	3.0	0.60	99.0	95.0	95.0
	Mean =	2.7	1.3	0.3	4.3	1.06	99.0	93.3	90.0

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES

BARE-GROUND/NON-CROP (YEAR 2)

Trial ID: CN-01-20

Study Dir.:

Location: PONDER FARM

Investigator: Eric P. Prostko

Weed Code			Agrass		Total
Crop Code			-----		Weed
Rating Data Type			Control		Cover
Rating Unit			Percent		Percent
Rating Date			May-15-20		May-15-20
Trt-Eval Interval			45 DA-A		45 DA-A
PRM Data Type					
# Subsamples, Dec.					
Trt Treatment	Rate Appl				
No. Name	Rate Unit Code Plot		17		18
1 NTC		101	0.0		75.0
		210	0.0		70.0
		312	0.0		75.0
		Mean =	0.0		73.3
2 CALLISTO	3.0 oz/a A	102	0.0		60.0
		206	0.0		65.0
		303	20.0		60.0
		Mean =	6.7		61.7
3 IMPACT	1.0 oz/a A	103	65.0		40.0
		212	65.0		50.0
		311	50.0		40.0
		Mean =	60.0		43.3
4 IMPACT Z	8.0 oz/a A	104	30.0		50.0
		201	35.0		45.0
		304	50.0		40.0
		Mean =	38.3		45.0
5 ANTHEM FLEX	3.0 oz/a A	105	85.0		10.0
		203	80.0		5.0
		305	75.0		10.0
		Mean =	80.0		8.3
6 LAUDIS	3.0 oz/a A	106	20.0		55.0
		208	15.0		65.0
		309	30.0		50.0
		Mean =	21.7		56.7
7 PROWL H20	32.0 oz/a A	107	95.0		10.0
		211	99.0		35.0
		306	99.0		5.0
		Mean =	97.7		16.7
8 DUAL II MAGNUM	16.0 oz/a A	108	50.0		40.0
		209	65.0		40.0
		307	40.0		40.0
		Mean =	51.7		40.0
9 ZIDUA	2.5 oz/a A	109	75.0		15.0
		207	55.0		30.0
		301	75.0		10.0
		Mean =	68.3		18.3
10 WARRANT	48.0 oz/a A	110	65.0		75.0
		202	50.0		35.0
		308	20.0		50.0
		Mean =	45.0		53.3
11 ATRAZINE	32.0 oz/a A	111	20.0		70.0
		204	35.0		70.0
		302	10.0		70.0
		Mean =	21.7		70.0
12 OUTLOOK	12.8 oz/a A	112	85.0		25.0
		205	65.0		20.0
		310	65.0		20.0
		Mean =	71.7		21.7

University of Georgia

RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
BARE-GROUND/NON-CROP (YEAR 2)

Trial ID: CN-01-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
PANTE = PANICUM, TEXAS / PANICUM TEXANUM BUCKL.
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.
DEDTO = BEGGARWEED, FLORIDA / DESMODIUM TORTUOSUM (SWEET) DC.
PRM Data Type
T1 = [C1]+[C2]+[C3]+[C4]+[C5]+[C6]
T2 = [8]+[9]+[10]+[11]