

University of Georgia

POST-HARVEST CORN WEED CONTROL														
Trial ID: PH-01A-24		Study Dir.: CALE CLOUD												
Location: GRADY COUNTY		Investigator: Eric P. Prostko												
Reps: 4		Plots: 10 by 25 feet												
Appl. Amount: 15 GAL/AC		Mix Size: 1.5 L (total for 4 plots; minimum=1.3035 L)												
Trt No.	Treatment Name	Form Unit	Form Type	Product Rate	Product Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC							A		-	101	206	302	407
2	GRAMOXONE	3	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1465 mL	102	209	308	404
	TRICOR	4	F	8.0 oz/a			POST1	A	6.25 mL/mx					
	INDUCE			0.25 % v/v			POST1	A	3.75 mL/mx					
3	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1473.8 mL	103	202	310	408
	AIM	2	EC	1.5 oz/a			POST1	A	1.172 mL/mx					
4	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1458.8 mL	104	213	303	410
	AIM	2	EC	1.5 oz/a			POST1	A	1.172 mL/mx					
	AGRIDEX			1.0 % v/v			POST1	A	15.0 mL/mx					
5	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1473.8 mL	105	203	311	405
	REVITON	2.83	SC	1.5 oz/a			POST1	A	1.172 mL/mx					
6	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1458.8 mL	106	201	305	413
	REVITON	2.83	SC	1.5 oz/a			POST1	A	1.172 mL/mx					
	AGRIDEX			1.0 % v/v			POST1	A	15.0 mL/mx					
7	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1456.3 mL	107	210	309	403
	ENLIST ONE	3.8	SL	24.0 oz/a			POST1	A	18.75 mL/mx					
8	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1456.3 mL	108	207	313	412
	ENLIST ONE	3.8	SL	24.0 oz/a			POST1	A	18.75 mL/mx					
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST2	B	25.0 mL/mx	1456.3 mL				
	ENLIST ONE	3.8	SL	24.0 oz/a			POST2	B	18.75 mL/mx					
9	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1473.8 mL	109	204	306	401
	AIM	2	EC	1.5 oz/a			POST1	A	1.172 mL/mx					
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST2	B	25.0 mL/mx	1473.8 mL				
	AIM	2	EC	1.5 oz/a			POST2	B	1.172 mL/mx					
10	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1473.8 mL	110	212	301	411
	REVITON	2.83	SC	1.5 oz/a			POST1	A	1.172 mL/mx					
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST2	B	25.0 mL/mx	1473.8 mL				
	REVITON	2.83	SC	1.5 oz/a			POST2	B	1.172 mL/mx					
11	GRAMOXONE	3	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1471.3 mL	111	205	304	409
	INDUCE			0.25 % v/v			POST1	A	3.75 mL/mx					
	GRAMOXONE	3	SL	32.0 oz/a			POST2	B	25.0 mL/mx	1471.3 mL				
	INDUCE			0.25 % v/v			POST2	B	3.75 mL/mx					
12	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1443.8 mL	112	208	312	402
	REVITON	2.83	SC	1.5 oz/a			POST1	A	1.172 mL/mx					
	AMSOL (34% AMS)			2.0 % v/v			POST1	A	30.0 mL/mx					
13	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a			POST1	A	25.0 mL/mx	1428.8 mL	113	211	307	406
	REVITON	2.83	SC	1.5 oz/a			POST1	A	1.172 mL/mx					
	AGRIDEX			1.0 % v/v			POST1	A	15.0 mL/mx					
	AMSOL (34% AMS)			2.0 % v/v			POST1	A	30.0 mL/mx					

Sort Order: Treatment

Trial Comments	
DONALD AND LAVON CONNELL FARM (+ QUINTON)	
BENGHAL AYFLOWER STAGE AT APPLICATION: 09/10/24: 12'16" TALL; FLOWERING 09/17/24: 3-10" TALL	
<u>SUMMARY:</u>	
A) FROM RATINGS OBTAINED ON OCTOBER 2 (15 DAYS AFTER THE POST2 APPLICATION):	

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Study Dir.: CALE CLOUD

Location: GRADY COUNTY

Investigator: Eric P. Prostko

1) THE ONLY TREATMENTS THAT PROVIDED >80% CONTROL OF BENGHAL DAYFLOWER WERE AS FOLLOWS:

ROUNDUP P-MAX3 + ENLIST ONE (POST1) = 81% CONTROL
ROUNDUP P-MAX3 + ENLIST ONE (POST1 + POST 2) = 93% CONTROL
GRAMXONE + INDUCE (POST1 + POST 2) = 88% CONTROL

2) SPLIT APPLICATIONS (POST1 + POST2) OF ROUNDUP P-MAX3 + AIM OR REVITON ONLY PROVIDED 65-69% CONTROL.

3) WITH SINGLE APPLICATIONS (POST1), THE ADDITION OF AGRIDEX TO ROUNDUP P-MAX3 + AIM SIGNIFICANTLY IMPROVED CONTROL BY 10% (44% VS 54%).

4) WITH SINGLE APPLICATIONS (POST1), AGRIDEX OR AGRIDEX + AMSOL DID NOT SIGNIFICANTLY IMPROVE CONTROL WITH ROUNDUP P-MAX3 + REVITON (45-49% CONTROL).

GENERAL TRIAL INFORMATION

Study Director: CALE CLOUD

Title:

Affiliation:

Postal Code:

Investigator: Eric P. Prostko

Title:

Affiliation:

Postal Code:

TRIAL LOCATION

City:

State/Prov.:

Postal Code:

Country:

E-Longitude of LL Corner °:

Altitude of LL Corner:

Unit:

Directions:

Trial Status: E

Trial Reliability:

Initiation Date:

Planned Completion Date:

N-Latitude of LL Corner °:

Angle y-axis to North °:

COOPERATOR/LANDOWNER

Cooperator:

Org:

Address 1:

Address 2:

City:

State/Prov:

Postal Code:

Country:

Phone No:

Fax No:

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.	COMBE	BE	NGHAL DAYFLOWER

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Investigator: Eric P. Prostko

Crop 1: _____

Variety: _____

Planting Date: _____

Planting Method: MONOSEM

Rate: _____ S/A

Depth: _____ IN

Perennial Age: _____

Row Spacing: _____

Spacing Within Row: _____

Seed Bed: _____

Soil Temperature: _____

Soil Moisture: _____

Emergence Date: _____

Plot Width, Unit: 10 FT

SITE AND DESIGN

Plot Length, Unit: 25 FT

Reps: 4

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: RACOBL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	FIELD CORN		2024

MAINTENANCE

Field Prep./Maintenance:

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

% Sand: _____

% OM: _____

Texture: _____

% Silt: _____

pH: _____

Soil Name: _____

% Clay: _____

CEC: _____

Fert. Level: _____

SOIL DESCRIPTION

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B
Application Date:	Sep-10-24	Sep-17-24
Time of Day:	8:22 AM	7:53 AM
Application Method:	BROADCAST	BROADCAST
Application Timing:	POST1	POST2
Applic. Placement:	FOLIAGE	FOLIAGE
Air Temp., Unit:	70 F	67 F
% Relative Humidity:	92	97
Wind Velocity, Unit:	7 MPH	0 MPH
Dew Presence (Y/N):	Y	Y
Water Hardness:	--	--
Soil Temp., Unit:	74 F	72 F
Soil Moisture:	OPTIMUM	OPTIMUM
% Cloud Cover:	40	0

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CROP STAGE AT EACH APPLICATION		
	A	B
Crop 1 Code, Stage:		
Stage Scale:		
Height, Unit:	, IN	

WEED STAGE AT EACH APPLICATION		
	A	B
Weed 1 Code, Stage:	COMBE,	COMBE,
Stage Scale:		
Density, Unit:		

APPLICATION EQUIPMENT		
	A	B
Appl. Equipment:	BACKPACK	SAME AS A
Operating Pressure:	35	
Nozzle Type:	AIXR	
Nozzle Size:	11002	
Nozzle Spacing, Unit:	20 IN	
Nozzles/Row:		
Band Width, Unit:		
Boom Length, Unit:	20 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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Location: GRADY COUNTY		Investigator: Eric P. Prostko								
Weed Code Rating Data Type Rating Unit Rating Date								Combe Control % Sep-17-24	Combe Control % Sep-25-24	Combe Control % Oct-2-24
Trt No.	Treatment Name	Form Unit	Form Type	Product Rate	Product Rate	Grow Unit	Appl Stg	1	2	3
1	NTC						A	0.0 f	0.0 g	0.0 g
2	GRAMOXONE	3	SL	32.0 oz/a	POST1 A			85.0 a	78.8 b	72.5 c
	TRICOR	4	F	8.0 oz/a	POST1 A					
	INDUCE			0.25 % v/v	POST1 A					
3	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			40.0 d	50.0 ef	43.8 ef
	AIM	2	EC	1.5 oz/a	POST1 A					
4	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			61.3 b	63.8 cd	53.8 d
	AIM	2	EC	1.5 oz/a	POST1 A					
	AGRIDEX			1.0 % v/v	POST1 A					
5	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			41.3 cd	56.3 de	48.8 de
	REVITON	2.83	SC	1.5 oz/a	POST1 A					
6	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			47.5 c	50.0 ef	45.0 ef
	REVITON	2.83	SC	1.5 oz/a	POST1 A					
	AGRIDEX			1.0 % v/v	POST1 A					
7	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			45.0 cd	57.5 de	81.3 b
	ENLIST ONE	3.8	SL	24.0 oz/a	POST1 A					
8	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			56.3 b	66.3 c	92.8 a
	ENLIST ONE	3.8	SL	24.0 oz/a	POST1 A					
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST2 B					
	ENLIST ONE	3.8	SL	24.0 oz/a	POST2 B					
9	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			43.8 cd	61.3 cd	65.0 c
	AIM	2	EC	1.5 oz/a	POST1 A					
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST2 B					
	AIM	2	EC	1.5 oz/a	POST2 B					
10	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			40.0 d	62.5 cd	68.8 c
	REVITON	2.83	SC	1.5 oz/a	POST1 A					
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST2 B					
	REVITON	2.83	SC	1.5 oz/a	POST2 B					
11	GRAMOXONE	3	SL	32.0 oz/a	POST1 A			82.5 a	87.5 a	87.5 ab
	INDUCE			0.25 % v/v	POST1 A					
	GRAMOXONE	3	SL	32.0 oz/a	POST2 B					
	INDUCE			0.25 % v/v	POST2 B					
12	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			31.3 e	42.5 f	40.0 f
	REVITON	2.83	SC	1.5 oz/a	POST1 A					
	AMSOL (34% AMS)			2.0 % v/v	POST1 A					
13	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a	POST1 A			47.5 c	57.5 de	47.5 def
	REVITON	2.83	SC	1.5 oz/a	POST1 A					
	AGRIDEX			1.0 % v/v	POST1 A					
	AMSOL (34% AMS)			2.0 % v/v	POST1 A					
LSD P=.10								7.19	7.57	7.80
Standard Deviation								6.02	6.34	6.54
CV								12.6	11.24	11.38
Grand Mean								47.79	56.44	57.42
Bartlett's X2^								25.909*	20.496	18.677
P(Bartlett's X2)								0.011*	0.058	0.097
Replicate F								0.579	0.171	0.413
Replicate Prob(F)								0.6327	0.9151	0.7444
Treatment F								51.353	42.570	56.648
Treatment Prob(F)								0.0001	0.0001	0.0001
Rating Unit										
% = PERCENT										

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.

^Calculated from residual.

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Weed Code Rating Data Type Rating Unit Rating Date							Combe Control % Sep-17-24	Combe Control % Sep-25-24	Combe Control % Oct-2-24		
Trt No.	Treatment Name	Form Unit	Form Type	Product Rate	Product Rate	Grow Unit Stg	Appl Code Plot	1	2	3	
1	NTC						A 101	0.0	0.0	0.0	
							206	0.0	0.0	0.0	
							302	0.0	0.0	0.0	
							407	0.0	0.0	0.0	
							Mean =	0.0	0.0	0.0	
2	GRAMOXONE	3	SL	32.0 oz/a		POST1 A	102	85.0	75.0	60.0	
	TRICOR	4	F	8.0 oz/a		POST1 A	209	85.0	85.0	80.0	
	INDUCE			0.25 % v/v		POST1 A	308	85.0	75.0	65.0	
							404	85.0	80.0	85.0	
							Mean =	85.0	78.8	72.5	
3	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	103	45.0	60.0	50.0	
	AIM	2	EC	1.5 oz/a		POST1 A	202	40.0	50.0	45.0	
							310	40.0	45.0	40.0	
							408	35.0	45.0	40.0	
							Mean =	40.0	50.0	43.8	
4	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	104	65.0	65.0	60.0	
	AIM	2	EC	1.5 oz/a		POST1 A	213	60.0	65.0	50.0	
	AGRIDEX			1.0 % v/v		POST1 A	303	55.0	65.0	50.0	
							410	65.0	60.0	55.0	
							Mean =	61.3	63.8	53.8	
5	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	105	40.0	55.0	50.0	
	REVITON	2.83	SC	1.5 oz/a		POST1 A	203	40.0	55.0	45.0	
							311	40.0	55.0	50.0	
							405	45.0	60.0	50.0	
							Mean =	41.3	56.3	48.8	
6	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	106	45.0	40.0	35.0	
	REVITON	2.83	SC	1.5 oz/a		POST1 A	201	40.0	40.0	40.0	
	AGRIDEX			1.0 % v/v		POST1 A	305	50.0	60.0	55.0	
							413	55.0	60.0	50.0	
							Mean =	47.5	50.0	45.0	
7	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	107	45.0	65.0	85.0	
	ENLIST ONE	3.8	SL	24.0 oz/a		POST1 A	210	35.0	50.0	80.0	
							309	50.0	60.0	85.0	
							403	50.0	55.0	75.0	
							Mean =	45.0	57.5	81.3	
8	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	108	50.0	65.0	98.0	
	ENLIST ONE	3.8	SL	24.0 oz/a		POST1 A	207	60.0	65.0	98.0	
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST2 B	313	65.0	75.0	95.0	
	ENLIST ONE	3.8	SL	24.0 oz/a		POST2 B	412	50.0	60.0	80.0	
							Mean =	56.3	66.3	92.8	
9	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	109	40.0	60.0	65.0	
	AIM	2	EC	1.5 oz/a		POST1 A	204	55.0	65.0	70.0	
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST2 B	306	40.0	65.0	65.0	
	AIM	2	EC	1.5 oz/a		POST2 B	401	40.0	55.0	60.0	
							Mean =	43.8	61.3	65.0	
10	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST1 A	110	30.0	50.0	65.0	
	REVITON	2.83	SC	1.5 oz/a		POST1 A	212	45.0	70.0	70.0	
	ROUNDUP P-MAX3	5.88	SL	32.0 oz/a		POST2 B	301	30.0	60.0	65.0	
	REVITON	2.83	SC	1.5 oz/a		POST2 B	411	55.0	70.0	75.0	
							Mean =	40.0	62.5	68.8	
11	GRAMOXONE	3	SL	32.0 oz/a		POST1 A	111	85.0	90.0	90.0	
	INDUCE			0.25 % v/v		POST1 A	205	85.0	85.0	90.0	
	GRAMOXONE	3	SL	32.0 oz/a		POST2 B	304	80.0	90.0	90.0	
	INDUCE			0.25 % v/v		POST2 B	409	80.0	85.0	80.0	
							Mean =	82.5	87.5	87.5	

