

University of Georgia

POSTEMERGENCE CONTROL OF PINK PURSLANE
 IN THE FIELD-TEST - 2
 Trial ID: PURSLANE-03-23 Study Dir.: NICK SHAY
 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	Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep					
										1	2	3	4		
1	ROUNDUP P-MAX3	5.88	SL	22.0	oz/a	POST	A	17.19 mL/mx	1482.8 mL	101	209	303	408		
2	GRAMOXONE INDUCE	2	SL	32.0	oz/a	POST	A	25.0 mL/mx	1471.3 mL	102	203	302	412		
				0.25	% v/v	POST	A	3.75 mL/mx							
3	LIBERTY	2.34	SL	32.0	oz/a	POST	A	25.0 mL/mx	1475 mL	103	207	305	413		
4	DIURON AGRIDEX	4	L	24.0	oz/a	POST	A	18.75 mL/mx	1466.3 mL	104	206	304	414		
				1.0	% v/v	POST	A	15.0 mL/mx							
5	AATREX AGRIDEX	4	L	48.0	oz/a	POST	A	37.5 mL/mx	1447.5 mL	105	214	313	405		
				1.0	% v/v	POST	A	15.0 mL/mx							
6	ULTRA BLAZER INDUCE	2	SL	24.0	oz/a	POST	A	18.75 mL/mx	1477.5 mL	106	212	314	406		
				0.25	% v/v	POST	A	3.75 mL/mx							
7	STORM AGRIDEX	4	SL	24.0	oz/a	POST	A	18.75 mL/mx	1466.3 mL	107	213	311	402		
				1.0	% v/v	POST	A	15.0 mL/mx							
8	COBRA AGRIDEX	2	EC	12.5	oz/a	POST	A	9.766 mL/mx	1475.2 mL	108	202	308	411		
				1.0	% v/v	POST	A	15.0 mL/mx							
9	SHIELDEX AGRIDEX	3.33	SC	1.35	oz/a	POST	A	1.055 mL/mx	1483.9 mL	109	204	309	407		
				1.0	% v/v	POST	A	15.0 mL/mx							
10	GRAMOXONE STORM INDUCE	2	SL	12.0	oz/a	POST	A	9.375 mL/mx	1474.4 mL	110	211	301	403		
				4	SL	16.0	oz/a	POST						A	12.5 mL/mx
				0.25	% v/v	POST	A	3.75 mL/mx							
11	REFLEX INDUCE	2	SL	24.0	oz/a	POST	A	18.75 mL/mx	1477.5 mL	111	201	306	404		
				0.25	% v/v	POST	A	3.75 mL/mx							
12	CADRE AGRIDEX	2	AS	4.0	oz/a	POST	A	3.125 mL/mx	1481.9 mL	112	205	310	401		
				1.0	% v/v	POST	A	15.0 mL/mx							
13	CLASSIC INDUCE	25	DG	0.5	oz/a	POST	A	0.3745 g/mx	1495.9 mL	113	210	312	410		
				0.25	% v/v	POST	A	3.75 mL/mx							
14	NTC								-	114	208	307	409		

Sort Order: Replicate 1

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Trial Comments

PORPI PLANTS WERE MECHAICALLY TRANSPLANTED FROM GREENHOUSE TO FIELD
10 PLANTS/PLOT

LAUDIS @ 3 OZ/A + ADEPT @ 0.25% V/V - 09/14/23
CALLISTO @ 3 OZ/A + ADEPT @ 0.25% V/V - 09/22/23

SUNRISE ON 10/02/23 WAS 7:29 AM
PURSLANE STAGE OF GROWTH ON 10/02/23: 2" TALL; 5.92" DIAMETER; FLOWERING (AVG OF 12 PLANTS)

FRESH WEIGHT BIOMASS COLLECTED BY HARVESTING 5 PLANTS/PLOT (ABOVE-GROUND).

SUMMARY:

1) THE ONLY TREATMENT THAT PROVIDED >80% VISUAL CONTROL AND BIOMASS REDUCTION WAS COBRA (85% CONTROL; 83% BIOMASS REDUCTION).

2) TREATMENTS THAT PROVIDED 70-79% VISUAL CONTROL AND BIOMASS REDUCTION INCLUDED THE FOLLOWING:

LIBERTY - 78% VISUAL CONTROL AND BIOMASS REDUCTION
DIURON - 76% VISUAL CONTROL; 74% BIOMASS REDUCTION
AATREX - 76% VISUAL CONTROL; 73% BIOMASS REDUCTION
SHIELDEX - 74% VISUAL CONTROL; 73% BIOMASS REDUCTION

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GENERAL TRIAL INFORMATION

Study Director: NICK SHAY **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.	PORPI	PI	NK PURSLANE

Crop 1: _____ **Variety:** _____
Planting Date: Sep-5-23 **Planting Method:** MECHANICAL TRANSPLANT
Rate: _____ **Depth:** 2 IN **Perennial Age:** _____
Row Spacing: _____ **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.	PEANUT		2022

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94 **% OM:** 0.53 **Texture:** SAND
% Silt: 4 **pH:** 6.0 **Soil Name:** FUQUAY
% Clay: 2 **CEC:** 2.6 **Fert. Level:** GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

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MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Sep-5-23		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	Sep-8-23		0.5	IN	SPRINKLER - LATERAL MOVE		
3.	Sep-12-23		1.27	IN	RAINFALL		
4.	Sep-17-23		0.27	IN	RAINFALL		
5.	Sep-26-23		1.47	IN	RAINFALL		
6.	Oct-4-23		0.01	IN	RAINFALL		
7.	Oct-6-23		0.01	IN	RAINFALL		
8.	Oct-11-23		0.25	IN	RAINFALL		
9.	Oct-12-23		1.03	IN	RAINFALL		
10.	Oct-13-23		0.07	IN	RAINFALL		

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

APPLICATION DESCRIPTION

	A
Application Date:	Oct-2-23
Time of Day:	7:45 AM
Application Method:	BROADCAST
Application Timing:	POST
Applic. Placement:	FOLIAGE
Air Temp., Unit:	61 F
% Relative Humidity:	94
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	70 F
Soil Moisture:	OPTIMUM
% Cloud Cover:	5

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	PORPI,
Stage Scale:	
Density, Unit:	

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APPLICATION EQUIPMENT	
	A
Appl. Equipment:	BACKPACK
Operating Pressure:	38
Nozzle Type:	AIXR
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 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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Weed Code						PORPI	PORPI	PORPI	
Part Rated						FRESH, -	VISUAL, -	BIOMAS, -	
Rating Data Type						W/5 plnt	Control	REDUCTION	
Rating Unit						Grams	%	%	
Rating Date						Oct-16-23	Oct-16-23	Oct-16-23	
Trt-Eval Interval						14 DA-A	14 DA-A	14 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	1	2	3
1	ROUNDUP P-MAX3	5.88	SL	22.0 oz/a	POST A	A	22.83 bcd	66.3 cde	43.5 cd
2	GRAMOXONE INDUCE	2	SL	32.0 oz/a 0.25 % v/v	POST A	A	18.68 bcd	65.0 de	47.5 cd
3	LIBERTY	2.34	SL	32.0 oz/a	POST A	A	11.83 cd	77.5 ab	77.5 a
4	DIURON AGRIDEX	4	L	24.0 oz/a 1.0 % v/v	POST A	A	12.40 cd	76.3 abc	73.5 ab
5	AATREX AGRIDEX	4	L	48.0 oz/a 1.0 % v/v	POST A	A	9.85 d	76.3 abc	72.5 ab
6	ULTRA BLAZER INDUCE	2	SL	24.0 oz/a 0.25 % v/v	POST A	A	22.28 bcd	51.3 fg	43.0 d
7	STORM AGRIDEX	4	SL	24.0 oz/a 1.0 % v/v	POST A	A	19.50 bcd	61.3 ef	45.5 cd
8	COBRA AGRIDEX	2	EC	12.5 oz/a 1.0 % v/v	POST A	A	6.75 d	85.0 a	82.5 a
9	SHIELDX AGRIDEX	3.33	SC	1.35 oz/a 1.0 % v/v	POST A	A	9.58 d	73.8 bcd	73.0 ab
10	GRAMOXONE STORM INDUCE	2 4	SL SL	12.0 oz/a 16.0 oz/a 0.25 % v/v	POST A POST A POST A	A	29.00 b	50.0 g	43.0 d
11	REFLEX INDUCE	2	SL	24.0 oz/a 0.25 % v/v	POST A	A	27.90 bc	43.8 g	43.0 d
12	CADRE AGRIDEX	2	AS	4.0 oz/a 1.0 % v/v	POST A	A	16.05 bcd	77.5 ab	54.5 bcd
13	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	POST A	A	14.18 bcd	70.0 b-e	65.8 abc
14	NTC						57.45 a	0.0 h	0.0 e
LSD P=.10							16.366	10.70	22.54
Standard Deviation							13.737	8.98	18.92
CV							69.11	14.39	34.64
Grand Mean							19.875	62.41	54.63

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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Randomized Complete Block (RCB) AOV For PORPI FRESH Wt/5 pint Grams Oct-16-23 14 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	15925.285000			
Replicate	3	77.310714	25.770238	0.137	0.9376
Treatment	13	8488.980000	652.998462	3.461	0.0013
Error	39	7358.994286	188.692161		

Randomized Complete Block (RCB) AOV For PORPI VISUAL Control % Oct-16-23 14 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	29899.553571			
Replicate	3	2437.053571	812.351190	10.076	0.0001
Treatment	13	24318.303571	1870.638736	23.203	0.0001
Error	39	3144.196429	80.620421		

Randomized Complete Block (RCB) AOV For PORPI BIOMAS REDUCTION % Oct-16-23 14 DA-A (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	66035.125000			
Replicate	3	27735.910714	9245.303571	25.827	0.0001
Treatment	13	24338.375000	1872.182692	5.230	0.0001
Error	39	13960.839286	357.970238		

Rating Unit
 % = PERCENT

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Weed Code						PORPI	PORPI	PORPI			
Part Rated						FRESH, -	VISUAL, -	BIOMAS, -			
Rating Data Type						Wt/5 pint	Control	REDUCTION			
Rating Unit						Grams	%	%			
Rating Date						Oct-16-23	Oct-16-23	Oct-16-23			
Trt-Eval Interval						14 DA-A	14 DA-A	14 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	
1	ROUNDUP P-MAX3	5.88 SL		22.0 oz/a	POST A	101		17.50	70.0	83.0	
								209	32.50	60.0	0.0
								303	35.00	55.0	0.0
								408	6.30	80.0	91.0
								Mean =	22.83	66.3	43.5
2	GRAMOXONE INDUCE	2 SL		32.0 oz/a	POST A	102		20.60	65.0	80.0	
								203	24.00	65.0	24.0
								302	20.00	55.0	0.0
								412	10.10	75.0	86.0
								Mean =	18.68	65.0	47.5
3	LIBERTY	2.34 SL		32.0 oz/a	POST A	103		21.20	80.0	80.0	
								207	5.40	85.0	83.0
								305	7.00	65.0	66.0
								413	13.70	80.0	81.0
								Mean =	11.83	77.5	77.5
4	DIURON AGRIDEX	4 L		24.0 oz/a	POST A	104		10.30	80.0	90.0	
								206	5.80	85.0	83.0
								304	9.30	65.0	54.0
								414	24.20	75.0	67.0
								Mean =	12.40	76.3	73.5
5	AATREX AGRIDEX	4 L		48.0 oz/a	POST A	105		7.80	80.0	93.0	
								214	11.70	80.0	63.0
								313	11.00	75.0	46.0
								405	8.90	70.0	88.0
								Mean =	9.85	76.3	72.5
6	ULTRA BLAZER INDUCE	2 SL		24.0 oz/a	POST A	106		11.80	65.0	89.0	
								212	28.50	60.0	10.0
								314	29.50	30.0	0.0
								406	19.30	50.0	73.0
								Mean =	22.28	51.3	43.0
7	STORM AGRIDEX	4 SL		24.0 oz/a	POST A	107		12.30	65.0	88.0	
								213	29.90	55.0	5.0
								311	17.50	70.0	14.0
								402	18.30	55.0	75.0
								Mean =	19.50	61.3	45.5
8	COBRA AGRIDEX	2 EC		12.5 oz/a	POST A	108		3.30	95.0	97.0	
								202	10.30	95.0	67.0
								308	4.20	80.0	79.0
								411	9.20	70.0	87.0
								Mean =	6.75	85.0	82.5
9	SHIELDDEX AGRIDEX	3.33 SC		1.35 oz/a	POST A	109		8.30	80.0	92.0	
								204	14.40	70.0	54.0
								309	9.20	60.0	55.0
								407	6.40	85.0	91.0
								Mean =	9.58	73.8	73.0
10	GRAMOXONE STORM INDUCE	2 SL		12.0 oz/a	POST A	110		17.50	60.0	83.0	
								211	19.20	60.0	39.0
								301	43.20	25.0	0.0
								403	36.10	55.0	50.0
								Mean =	29.00	50.0	43.0
11	REFLEX INDUCE	2 SL		24.0 oz/a	POST A	111		24.50	60.0	77.0	
								201	51.40	40.0	0.0
								306	15.90	20.0	22.0
								404	19.80	55.0	73.0
								Mean =	27.90	43.8	43.0

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Weed Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Tri-Eval Interval	PORPI FRESH, - Wt/5 pint Grams Oct-16-23 14 DA-A	PORPI VISUAL, - Control % Oct-16-23 14 DA-A	PORPI BIOMAS, - REDUCTION % Oct-16-23 14 DA-A
Tri Treatment	Form Form	Rate	Grow	Appl				
No. Name	Conc Type	Rate Unit	Stg	Code	Plot	1	2	3
12 CADRE	2 AS	4.0 oz/a	POST	A	112	9.00	95.0	91.0
AGRIDEX		1.0 % v/v	POST	A	205	14.70	85.0	53.0
					310	19.70	60.0	3.0
					401	20.80	70.0	71.0
					Mean =	16.05	77.5	54.5
13 CLASSIC	25 DG	0.5 oz/a	POST	A	113	12.50	80.0	88.0
INDUCE		0.25 % v/v	POST	A	210	16.60	75.0	47.0
					312	9.50	65.0	53.0
					410	18.10	60.0	75.0
					Mean =	14.18	70.0	65.8
14 NTC					114	105.50	0.0	0.0
					208	31.50	0.0	0.0
					307	20.30	0.0	0.0
					409	72.50	0.0	0.0
					Mean =	57.45	0.0	0.0

Rating Unit
 % = PERCENT