

University of Georgia

POSTEMERGENCE CONTROL OF PINK PURSLANE
 IN THE FIELD-TEST 1
 Trial ID: PURSLANE-02-23 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 TRANSPLANTED FROM GREENHOUSE TO FIELD
10 PLANTS/PLOT

SELECT MAX @ 16 OZ/A + TASER 90 @ 0.25% V/V - MAY 22

200 LBS/A 10-10-10 - JUNE 6

SUNRISE ON JUNE 13 WAS 6:29 AM

PINK PURSLANE AT APPLICATION: AVERAGE OF 12 PLANTS:
2.5" TALL/6.2" DIAMETER AND FLOWERING

RAINFALL ON JUNE 13 AFTER APPLICATION WAS MORE THAN 6 HAT.

BIOMASS DATA OBTAINED BY HARVESTING 5 PLANTS/PLOT (ABOVE-GROUND).

SUMMARY:

1) THE ONLY TREATMENTS THAT PROVIDED AT LEAST 83% VISUAL CONTROL AND BIOMASS REDUCTION WERE AATREX (99% VISUAL CONTROL; 85% BIOMASS REDUCTION) AND COBRA (88% VISUAL CONTROL; 83% BIOMASS REDUCTION).

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 Location: PONDER FARM Investigator: Eric P. Prostko

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: May-12-23 **Planting Method:** HAND TRANSPLANT
Rate: _____ **Depth:** _____ **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: 92 **% OM:** 0.53 **Texture:** SAND
% Silt: 6 **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.	May-11-23		0.5	IN	SPRINKLER - LATERAL MOVE		
2.	May-12-23		0.5	IN	SPRINKLER - LATERAL MOVE		
3.	May-12-23		2.5	IN	RAINFALL		
4.	May-20-23		0.1	IN	RAINFALL		
5.	May-22-23		0.75	IN	RAINFALL		
6.	Jun-6-23		0.5	IN	SPRINKLER - LATERAL MOVE		
7.	Jun-7-23		0.5	IN	RAINFALL		
8.	Jun-12-23		0.65	IN	RAINFALL		
9.	Jun-13-23		0.6	IN	RAINFALL		
10.	Jun-14-23		2.0	IN	RAINFALL		
11.	Jun-15-23		2.2	IN	RAINFALL		

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

APPLICATION DESCRIPTION

	A
Application Date:	Jun-13-23
Time of Day:	6:30 AM
Application Method:	BROADCAST
Application Timing:	POST
Applic. Placement:	FOLIAGE
Air Temp., Unit:	72 F
% Relative Humidity:	98
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	76 F
Soil Moisture:	OPTIMUM
% Cloud Cover:	40

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:	2.5" TALL
Density, Unit:	

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APPLICATION EQUIPMENT	
	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
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	PORPI	PORPI	
Part Rated						VISUAL, -	VISUAL, -	BIOMASS	BIOMASS	BIOMAS, -	
Rating Data Type						Control	Control	G/5 PLTS	G/PLANT	REDUCTION	
Rating Unit						%	%	%	%	%	
Rating Date						Jun-21-23	Jun-27-23	Jun-27-23	Jun-27-23	Jun-27-23	
Trt-Eval Interval						8 DA-A	14 DA-A	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	4	5
1	ROUNDUP P-MAX3	5.88	SL	22.0 oz/a	POST A	A	37.5 e	45.0 cde	88.9 bc	17.8 bc	43.0 bcd
2	GRAMOXONE INDUCE	2	SL	32.0 oz/a 0.25 % v/v	POST A	A	67.5 b	60.0 bc	50.5 cd	10.1 cd	61.0 ab
3	LIBERTY	2.34	SL	32.0 oz/a	POST A	A	65.0 b	50.0 bcd	43.0 cd	8.6 cd	62.8 ab
4	DIURON AGRIDEX	4	L	24.0 oz/a 1.0 % v/v	POST A	A	52.5 cd	50.0 bcd	56.9 cd	11.4 cd	49.0 bcd
5	AATREX AGRIDEX	4	L	48.0 oz/a 1.0 % v/v	POST A	A	68.8 b	99.0 a	18.1 d	3.6 d	85.0 a
6	ULTRA BLAZER INDUCE	2	SL	24.0 oz/a 0.25 % v/v	POST A	A	62.5 bc	56.3 bc	60.8 cd	12.2 cd	45.3 bcd
7	STORM AGRIDEX	4	SL	24.0 oz/a 1.0 % v/v	POST A	A	42.5 de	37.5 de	123.3 ab	24.7 ab	24.5 de
8	COBRA AGRIDEX	2	EC	12.5 oz/a 1.0 % v/v	POST A	A	99.0 a	87.5 a	19.6 d	3.9 d	83.3 a
9	SHIELDX AGRIDEX	3.33	SC	1.35 oz/a 1.0 % v/v	POST A	A	20.0 f	33.8 ef	86.7 bc	17.3 bc	32.5 cd
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	45.0 de	21.3 f	147.7 a	29.5 a	6.5 e
11	REFLEX INDUCE	2	SL	24.0 oz/a 0.25 % v/v	POST A	A	62.5 bc	45.0 cde	67.9 c	13.6 c	42.5 bcd
12	CADRE AGRIDEX	2	AS	4.0 oz/a 1.0 % v/v	POST A	A	42.5 de	63.8 b	53.9 cd	10.8 cd	51.0 bc
13	CLASSIC INDUCE	25	DG	0.5 oz/a 0.25 % v/v	POST A	A	36.3 e	40.0 de	80.2 bc	16.0 bc	32.8 cd
14	NTC						0.0 g	0.0 g	125.2 ab	25.0 ab	0.0 e
LSD P=.10							11.25	15.30	46.36	9.27	25.27
Standard Deviation							9.44	12.84	38.91	7.78	21.21
CV							18.85	26.09	53.27	53.27	47.98
Grand Mean							50.11	49.21	73.04	14.61	44.21

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 VISUAL Control % Jun-21-23 8 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	33553.357143			
Replicate	3	133.928571	44.642857	0.501	0.6841
Treatment	13	29940.857143	2303.142857	25.822	0.0001
Error	39	3478.571429	89.194139		

Randomized Complete Block (RCB) AOV For PORPI VISUAL Control % Jun-27-23 14 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	38619.428571			
Replicate	3	96.428571	32.142857	0.195	0.8992
Treatment	13	32094.428571	2468.802198	14.977	0.0001
Error	39	6428.571429	164.835165		

Randomized Complete Block (RCB) AOV For PORPI BIOMASS G/5 PLTS Jun-27-23 14 DA-A (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	140195.013571			
Replicate	3	3596.660714	1198.886905	0.792	0.5058
Treatment	13	77555.623571	5965.817198	3.941	0.0004
Error	39	59042.729286	1513.916136		

Randomized Complete Block (RCB) AOV For PORPI BIOMASS G/PLANT Jun-27-23 14 DA-A (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	5607.800543			
Replicate	3	143.866429	47.955476	0.792	0.5058
Treatment	13	3102.224943	238.632688	3.941	0.0004
Error	39	2361.709171	60.556645		

Randomized Complete Block (RCB) AOV For PORPI BIOMAS REDUCTION % Jun-27-23 14 DA-A (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	53051.428571			
Replicate	3	3815.285714	1271.761905	2.826	0.0511
Treatment	13	31686.428571	2437.417582	5.417	0.0001
Error	39	17549.714286	449.992674		

Rating Unit
 % = PERCENT
ARM Action Codes
 T1 = [3]/5

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 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						PORPI	PORPI	PORPI	PORPI	PORPI		
Part Rated						VISUAL, -	VISUAL, -	BIOMASS	BIOMASS	BIOMAS, -		
Rating Data Type						Control	Control	G/5 PLTS	G/PLANT	REDUCTION		
Rating Unit						%	%			%		
Rating Date						Jun-21-23	Jun-27-23	Jun-27-23	Jun-27-23	Jun-27-23		
Trt-Eval Interval						8 DA-A	14 DA-A	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	4	5
1	ROUNDUP P-MAX3	5.88 SL	22.0 oz/a	POST A	101		15.0	20.0	201.1	40.2	0.0	
							209	35.0	40.0	56.5	11.3	51.0
							303	50.0	55.0	64.5	12.9	62.0
							408	50.0	65.0	33.4	6.7	59.0
						Mean =		37.5	45.0	88.9	17.8	43.0
2	GRAMOXONE INDUCE	2 SL	32.0 oz/a	POST A	102		65.0	55.0	84.3	16.9	38.0	
							203	80.0	75.0	45.1	9.0	61.0
							302	65.0	60.0	52.9	10.6	69.0
							412	60.0	50.0	19.6	3.9	76.0
						Mean =		67.5	60.0	50.5	10.1	61.0
3	LIBERTY	2.34 SL	32.0 oz/a	POST A	103		65.0	60.0	50.2	10.0	63.0	
							207	70.0	50.0	42.4	8.5	63.0
							305	65.0	40.0	37.7	7.5	76.0
							413	60.0	50.0	41.6	8.3	49.0
						Mean =		65.0	50.0	43.0	8.6	62.8
4	DIURON AGRIDEX	4 L	24.0 oz/a	POST A	104		50.0	60.0	60.0	12.0	56.0	
							206	60.0	50.0	49.3	9.9	57.0
							304	60.0	70.0	28.1	5.6	83.0
							414	40.0	20.0	90.3	18.1	0.0
						Mean =		52.5	50.0	56.9	11.4	49.0
5	AATREX AGRIDEX	4 L	48.0 oz/a	POST A	105		60.0	99.0	13.6	2.7	90.0	
							214	65.0	99.0	19.6	3.9	83.0
							313	70.0	99.0	23.5	4.7	86.0
							405	80.0	99.0	15.7	3.1	81.0
						Mean =		68.8	99.0	18.1	3.6	85.0
6	ULTRA BLAZER INDUCE	2 SL	24.0 oz/a	POST A	106		50.0	60.0	54.9	11.0	60.0	
							212	80.0	60.0	35.9	7.2	69.0
							314	55.0	45.0	119.9	24.0	29.0
							406	65.0	60.0	32.5	6.5	23.0
						Mean =		62.5	56.3	60.8	12.2	45.3
7	STORM AGRIDEX	4 SL	24.0 oz/a	POST A	107		50.0	50.0	71.3	14.3	47.0	
							213	50.0	60.0	56.2	11.2	51.0
							311	20.0	10.0	222.1	44.4	0.0
							402	50.0	30.0	143.5	28.7	0.0
						Mean =		42.5	37.5	123.3	24.7	24.5
8	COBRA AGRIDEX	2 EC	12.5 oz/a	POST A	108		99.0	95.0	19.7	3.9	85.0	
							202	99.0	95.0	24.1	4.8	79.0
							308	99.0	90.0	18.7	3.7	89.0
							411	99.0	70.0	15.9	3.2	80.0
						Mean =		99.0	87.5	19.6	3.9	83.3
9	SHIELDDEX AGRIDEX	3.33 SC	1.35 oz/a	POST A	109		20.0	30.0	84.7	16.9	38.0	
							204	20.0	40.0	70.4	14.1	39.0
							309	20.0	40.0	79.7	15.9	53.0
							407	20.0	25.0	112.0	22.4	0.0
						Mean =		20.0	33.8	86.7	17.3	32.5
10	GRAMOXONE STORM INDUCE	2 SL	12.0 oz/a	POST A	110		45.0	30.0	100.9	20.2	26.0	
						4 SL	16.0 oz/a	POST A	211		30.0	10.0
			301	55.0	15.0					182.2	36.4	0.0
			403	50.0	30.0					107.7	21.5	0.0
		Mean =		45.0	21.3	147.7	29.5	6.5				
11	REFLEX INDUCE	2 SL	24.0 oz/a	POST A	111		60.0	35.0	76.0	15.2	44.0	
							201	55.0	35.0	115.8	23.2	0.0
							306	70.0	60.0	38.8	7.8	77.0
							404	65.0	50.0	41.0	8.2	49.0
						Mean =		62.5	45.0	67.9	13.6	42.5

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Weed Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Tri-Eval Interval	PORPI VISUAL, - Control % Jun-21-23 8 DA-A	PORPI VISUAL, - Control % Jun-27-23 14 DA-A	PORPI BIOMASS G/5 PLTS Jun-27-23 14 DA-A	PORPI BIOMASS G/PLANT Jun-27-23 14 DA-A	PORPI BIOMAS, - REDUCTION % Jun-27-23 14 DA-A
Tri Treatment	Form Form	Rate	Grow	Appl						
No. Name	Conc Type	Rate Unit	Stg	Code	Plot	1	2	3	4	5
12 CADRE	2 AS	4.0 oz/a	POST	A	112	40.0	65.0	40.2	8.0	70.0
AGRIDEX		1.0 % v/v	POST	A	205	50.0	60.0	37.0	7.4	68.0
					310	40.0	65.0	57.4	11.5	66.0
					401	40.0	65.0	80.9	16.2	0.0
					Mean =	42.5	63.8	53.9	10.8	51.0
13 CLASSIC	25 DG	0.5 oz/a	POST	A	113	50.0	50.0	58.9	11.8	57.0
INDUCE		0.25 % v/v	POST	A	210	35.0	30.0	91.4	18.3	21.0
					312	30.0	30.0	95.8	19.2	43.0
					410	30.0	50.0	74.8	15.0	10.0
					Mean =	36.3	40.0	80.2	16.0	32.8
14 NTC					114	0.0	0.0	135.8	27.2	0.0
					208	0.0	0.0	115.8	23.2	0.0
					307	0.0	0.0	168.2	33.6	0.0
					409	0.0	0.0	80.8	16.2	0.0
					Mean =	0.0	0.0	125.2	25.0	0.0

Rating Unit
 % = PERCENT
ARM Action Codes
 T1 = [3]/5