University of Georgia

BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Reps: 3 Plots: 6 by 25 feet
Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC								-	101	208	312
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1472.5 mL	102	206	310
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	2.344 mL/mx				
	STRONGARM	84	WG	0.225	oz/a	A	PRE	0.1685 g/mx				
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1465.5 mL	103	205	307
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	9.375 mL/mx				
	STRONGARM	84	WG	0.225	oz/a	A	PRE	0.1685 g/mx				
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1464.8 mL	104	210	305
	VALOR EZ	4	SC	1.0	oz/a	A	PRE	0.7812 mL/mx				
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	9.375 mL/mx				
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1464.1 mL	105	204	309
	VALOR EZ	4	SC	2.0	oz/a	A	PRE	1.562 mL/mx				
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	9.375 mL/mx				
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1463.3 mL	106	207	308
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	2.344 mL/mx				
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	9.375 mL/mx				
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1465.6 mL	107	211	301
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	9.375 mL/mx				
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1474.2 mL	108	202	304
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	0.7812 mL/mx				
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1474.1 mL	109	212	303
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	0.7812 mL/mx				
	STRONGARM	84	WG	0.225	oz/a	A	PRE	0.1685 g/mx				
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1464.8 mL	110	201	302
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	0.7812 mL/mx				
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	9.375 mL/mx				
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	25.0 mL/mx	1473.8 mL	111	209	311
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE	1.172 mL/mx				
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	0.7812 mL/mx	1474.2 mL	112	203	306
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE	25.0 mL/mx				

Sort Order: Replicate 1

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Trial Comments

FIRST IRRIGATION/RAINFALL EVENT DID NOT OCCUR UNTIL 8 DAP DUE TO IRRIGATION PUMP PROBLEMS.

SUMMARY:

1) GENERALLY, REXOVOR AND BRAKE CAUSED LESS PEANUT STUNTING THAN VALOR.

2) BRAKE CAUSED TEMPORARY PEANUT BLEACHING.

3) PRE APPLIED PROWL + VALOR + STRONGARM PROVIDED BETTER RESIDUAL CONTROL OF PALMER AMARANTH THAN EITHER PROWL + BRAKE + STRONGARM OR PROWL + REXOVOR + STRONGARM. NO DIFFERENCES IN SMALLFLOWER MG, WILD RADISH, AND ANNUAL GRASSES WERE OBSERVED BETWEEN THESE 3-WAY MIXES.

4) REXOVOR OR BRAKE WITHOUT STRONGARM DID NOT PROVIDE ACCEPTABLE CONTROL (<70%) OF WILD RADISH, ANNUAL GRASSES, OR SMALLFLOWER MG.

5) REXOVOR AND BRAKE APPEAR TO BE MORE SENSITIVE TO TIMELY MOISTURE ACTIVATION THAN VALOR.

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General Trial Information

Study Director: ERIC P. PROSTKO **Title:** _____
Investigator: _____ **Title:** _____

Discipline: ___
Status: E established

ARM Trial Created On: Mar-29-23 **Meets All Objectives:** _ **Reliability:** _____
Initiation Date: _____ **Planned Completion Date:** _____ **Interim Data Due:** _____
Completion Date: _____ **Last Possible Tour Visit:** _____

Trial Location

City: _____ **Country:** ___
State/Prov.: _____ **County:** _____
Postal Code: _____ **Climate Zone:** _____

Latitude of LL Corner °: _____ _
Longitude of LL Corner °: _____ _
GPS Accuracy of LL Corner: _____ __
Altitude of LL Corner: _____ _____
Angle y-axis to North °: _____
Directions:

Keywords:

Regulations

Test Facility: _____
GEP Accreditation Number: _____
GEP Accreditation Link: _____
Certificate Expiration: _____
Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Official Protocol ID:** _____
_____ **Study Rules:** _____

No.	Destroyed?	Crop No.	Crop Code	Crop Stage	Part Destroyed	Explanation	Method	Destruction Date	Verified By
1.									

No.	Guideline	Discipline	Description
1.			

No.	Permit Number	Permit Description
1.		

Objectives:

Materials and Methods

Results:

Conclusions:

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Contacts

Role: STYDIR study director
Study Director: ERIC P. PROSTKO **Title:** _____
Organization: UGA **Org. Type:** _____
Address 1: _____ **Phone No.:** _____ **Mobile No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____ **Postal Code:** _____

Role: INVEST investigator
Investigator: _____ **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____ **Mobile No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____ **Postal Code:** _____

Role: SPONSR sponsor
Sponsor: _____ **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____ **Mobile No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____ **Postal Code:** _____

Role: COOPER cooperator
Cooperator: _____ **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____ **Mobile No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____ **Postal Code:** _____

Role: _____
Contact Name 5: _____ **Title:** _____
Organization: _____ **Org. Type:** _____
Address 1: _____ **Phone No.:** _____ **Mobile No.:** _____
Address 2: _____
Country: ___ **E-mail:** _____
City: _____ **State/Prov:** _____ **Postal Code:** _____

Crop Description

Crop 1: _ _____ _____ _____
Entry Date: Sep-27-23 **Stage Scale:** _____
Variety: GA-06G
Attributes: _____

Seed Shape: _____ **Seed Size:** _____ _____
Perennial Age: _____ _____ **Perennial Height:** _____ __

Nursery Date: _____
Planting Date: May-3-23 **Planting Rate:** 4 S/FT
Depth: 2 IN
Rows per Plot: 4 **Planting Method:** _____
Row Spacing: _____ _____ **Planting Equipment:** VP vacuum planter
Spacing within Row: _____ _____ **Seed Bed:** _____
Soil Temperature: _____ _ **Soil Moisture:** NORMAL normal, adequate

Emergence Date: _____

Harvest Date: _____ **Harvest Equipment:** _____
Moisture Meter: _____ **Harvested Width:** _____ _____
% Standard Moisture: _____ **Harvested Length:** _____ _____
Weighing Equipment: _____

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Pest Description

Pest 1 Type: _ **Code:** AMAPA _____ **Entry Date:** Mar-29-23
Common Name: PALMER AMARANTH **Stage Scale:** BBCH
Attributes: _____ **Artificial Population:** _

Establishment Date: _____ **Time:** _____ **Stage at Establishment:** _____
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Pest 2 Type: _ **Code:** AGRASS _____ **Entry Date:** Mar-29-23
Common Name: ANNUAL GRASSES **Stage Scale:** BBCH
Attributes: _____ **Artificial Population:** _

Establishment Date: _____ **Time:** _____ **Stage at Establishment:** _____
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Pest 3 Type: W **Code:** IAQTA Jacquemontia tamnifolia **Entry Date:** Mar-29-23
Common Name: small-flower morning glory **Stage Scale:** BBCH
Attributes: _____ **Artificial Population:** _

Establishment Date: _____ **Time:** _____ **Stage at Establishment:** _____
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Pest 4 Type: W **Code:** RAPRA Raphanus raphanistrum **Entry Date:** Jun-26-23
Common Name: Wild radish **Stage Scale:** BBCH
Attributes: _____ **Artificial Population:** _

Establishment Date: _____ **Time:** _____ **Stage at Establishment:** _____
Establishment Rate: _____ _____
Concentration: _____ _____
Establishment Method/Description: _____
Crop: __ _____ **Stage at Infestation:** _____

Site and Design

Treated Plot Width: 6 FT **Site Type:** _____
Treated Plot Length: 25 FT **Experimental Unit:** _____ _____
Treated Plot Area: 150.0 FT2 **Tillage Type:** _____
Replications: 3 **Treatments:** 12 **Plots:** 36 **Study Design:** RACOBL Randomized Complete Block (RCB)
% Slope: _____

Trial Initiation Comments:

Location Quality:

No.	Previous Crop	Previous Pest Type	Previous Pest	Previous Pesticides	Year	Month	Comment
1.	CORN				2022		
2.							

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix (Yes/No)	Comment
1.											

Comment:

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Field Prep./Maintenance:
1 TON/A LIME - PREPLANT
300 LBS/A 5-15-30 - PREPLANT
36'-9" TWIN ROWS
THIMET INFR @ 7 LBS/A
150 LBS/A GYPSUM - JUNE 5

Soil Description
Description Name: _____
% Sand: 94 **% OM:** 0.6 **Texture:** SAND
% Silt: 4 **% Carbon:** _____ **Soil Name:** LEEFIELD
% Clay: 2 **% Lime:** _____ **Fert. Level:** G good
pH: 6.0 **CEC:** 2.8
Soil Drainage: _
Comment:

Additional Measured Elements

Date	Element	Quantity	Unit	Depth	Unit	Comment

Weather Conditions
Overall Moisture Conditions: _____ **Irrigation Type:** _____
Weather Station Name: _____ **Code:** _____ **Distance:** _____ __

No.	Date	Time	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Min % Relative Humidity	Max % Relative Humidity	Avg % Relative Humidity	Min Wind	Max Wind	Avg Wind	Unit	% Cloud Cover	Avg Shortwave Radiation
1.																	

Comment:
RAINFALL/IRRIGATION DATA:
05/11/23 - 0.5" IRRIGATION
05/12/23 - 2.5" RAINFALL
05/20/23 - 0.1" RAINFALL
05/22/23 - 0.75" RAINFALL
05/23/23 - 0.3" RAINFALL
06/01/23 - 0.3" IRRIGATION
06/07/23 - 0.5" IRRIGATION
06/07/23 - 0.5" RAINFALL
06/12/23 - 0.65" RAINFALL
06/13/23 - 0.6" RAINFALL
06/14/23 - 2" RAINFALL
06/15/23 - 2.2" RAINFALL

Greenhouse Information

No.	Greenhouse ID	Date	Light Intensity	Light Intensity Unit	Hours of Light	Min Temp	Max Temp	Temp Unit	Min % Relative Humidity	Max % Relative Humidity	Irrigation Type	Irrigation Type Description	Irrigation Frequency	Irrigatio Duratio
1.														

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Application Description

	A
Date	May-4-23
Start Time	
Stop Time	6:30 AM
Standard	
Method	BROADCAST
Timing	PRE
Placement	SOIL
Mixed/Prepared By	NS
Applied By	NS
Entry Date	Sep-27-23
Air Temperature Start, Stop	, 48 F
% Relative Humidity Start, Stop	85,
Wind Velocity+Dir. Start	0 MPH,
Wind Velocity+Dir. Stop	
Wind Velocity+Dir. Max	
Wet Leaves (Y/N)	
Soil Temperature	60 F
Soil Temperature Depth	
Soil Moisture	OPTIMUM
Soil Surface Condition	
% Ground Cover	
% Cloud Cover	0
First Moisture Occurred On	
Time to First Moisture	
Amount of First Moisture	
Moisture 1 Week Before Appl.	
Moisture 6 Hours after Appl.	
Moisture 24 Hours after Appl.	
Moisture 1 Week after Appl.	
Problems with Application?	N, no

Comment:

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Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	
Days after Emergence	
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Density Average	
Density Minimum, Maximum	
Coverage	

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	AMAPA, , BBCH
Establishment Interval	
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Relative Density	
Density Average	
Density Minimum, Maximum	
Coverage	
Crop Part Attacked, Code	
Pest 2 Code, Type, Scale	AGRASS, , BBCH
Establishment Interval	
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Relative Density	
Density Average	
Density Minimum, Maximum	
Coverage	
Crop Part Attacked, Code	
Pest 3 Code, Type, Scale	IAQTA, W, BBCH
Establishment Interval	

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Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Relative Density	
Density Average	
Density Minimum, Maximum	
Coverage	
Crop Part Attacked, Code	
Pest 4 Code, Type, Scale	RAPRA, W, BBCH
Establishment Interval	
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Relative Density	
Density Average	
Density Minimum, Maximum	
Coverage	
Crop Part Attacked, Code	

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Application Equipment

	A
Equipment Name	
Equipment Type	BCKPAC
Operation Pressure	38 PSI
Nozzle Model	TEEJET
Nozzle Type	AIXR
Nozzle TradeName	
Nozzle Tip Size, Color	11002,
Nozzle Spacing	20.0 IN
Nozzles/Row	
Nozzle Count	
Band Width	
Spray Swath	
% Coverage	
Boom ID	
Boom Length	60.0 IN
Boom Height	20.0 IN
Ground Speed	3.5 MPH
Carrier	WATER
Water Hardness (ppm CaCO3)	
Application Amount	
Mix Overage	
Mix Size	1.5 L
Spray pH	
Propellant	COMCO2
Tank Mix (Y/N)	

Equipment Comment:

Treatment Appl. Comments
Trt No Treatment Application Comment
___

Notes

Context	Date	By	Notes
STATUS	Mar-29-23	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Sep-27-23	Eric P. Prostko	Automatically added by ARM: Status changed to: E: changed by (EGAPRE).
STATUS	Sep-27-23	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.

Deviations

No. 1: Date:_____ By:_____
Deviations:
Reasons:

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SE Definitions

	1.
Rating Timing	
SE Name	
SE Description	
Part Rated	
Rating Type	
Rating Unit/Min/Max	
Sample Size	
Collection Basis	
Reporting Basis	
Number of Subsamples	
Untreated Rating Type	
ARM Action Codes	
Pest Type, Code	
Crop Type, Code	
Required	

No. Task Comment
1. ___

Instructions:
Yield Required: _

Geographic Area/Environmental Considerations:

Cropping Considerations:

Data to Collect:

Statistical Analysis:

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	1	2	3	4	5	6	7	8
Rating Date								May-17-23	May-17-23	May-17-23	May-17-23	May-17-23	May-17-23	May-24-23	May-24-23
Rating Type								Stunting	Bleaching	Necrosis	Control	Control	Control	Stunting	Bleaching
Rating Unit/Min/Max								%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Crop Name								peanut	peanut	peanut				peanut	peanut
Pest Name											Palmer amaranth	small-flower mo>	annual grasses		
1	NTC							0.0 g	0.0 c	0.0 b	0.0 d	0.0 f	0.0 c	0.0 e	0.0 d
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	28.3 a	0.0 c	6.7 a	99.0 a	96.3 a	91.7 ab	15.0 a	0.0 d
	VALOR EZ	4	SC	3.0	oz/a	A	PRE								
	STRONGARM	84	WG	0.225	oz/a	A	PRE								
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	8.3 def	11.7 a	0.0 b	96.3 c	63.3 de	85.0 ab	5.0 d	10.0 a
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
	STRONGARM	84	WG	0.225	oz/a	A	PRE								
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	11.7 cd	5.0 b	0.0 b	97.7 b	65.0 de	81.7 ab	6.7 cd	3.3 c
	VALOR EZ	4	SC	1.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	23.3 b	0.0 c	5.0 a	99.0 a	81.7 bc	93.0 ab	10.0 b	1.7 cd
	VALOR EZ	4	SC	2.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	30.0 a	0.0 c	6.7 a	99.0 a	94.3 ab	97.7 a	15.0 a	0.0 d
	VALOR EZ	4	SC	3.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	6.7 ef	11.7 a	0.0 b	99.0 a	55.0 e	83.3 ab	5.0 d	10.0 a
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	8.3 def	0.0 c	5.0 a	99.0 a	63.3 de	83.3 ab	8.3 bc	0.0 d
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE								
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	10.0 cde	0.0 c	5.0 a	99.0 a	70.0 cd	81.7 ab	5.0 d	1.7 cd
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE								
	STRONGARM	84	WG	0.225	oz/a	A	PRE								
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	11.7 cd	10.0 a	6.7 a	99.0 a	70.0 cd	91.7 ab	8.3 bc	6.7 b
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	13.3 c	0.0 c	6.7 a	99.0 a	71.7 cd	81.7 ab	8.3 bc	0.0 d
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE								
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	5.0 f	0.0 c	5.0 a	99.0 a	65.0 de	75.0 b	6.7 cd	0.0 d
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE								
LSD P=.10								3.84	3.38	3.64	1.29	14.53	19.85	2.64	2.42
Standard Deviation								2.74	2.41	2.60	0.92	10.36	14.16	1.88	1.72
CV								20.99	75.44	66.83	1.02	15.63	17.96	24.17	62.01
Grand Mean								13.06	3.19	3.89	90.42	66.31	78.81	7.78	2.78

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.
Could not calculate LSD (% mean diff) for columns 16 because error mean square = 0.
^Calculated from residual.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	May-24-23 Necrosis %, 0, 100 peanut	May-24-23 Control %, 0, 100 Palmer amaranth	May-24-23 Control %, 0, 100 Wild radish	May-24-23 Control %, 0, 100 annual grasses	May-24-23 Control %, 0, 100 carpetweed	Jun-7-23 Stunting %, 0, 100 peanut	Jun-7-23 Bleaching %, 0, 100 peanut	Jun-7-23 Necrosis %, 0, 100 peanut
	Rating Date							May-24-23	May-24-23	May-24-23	May-24-23	May-24-23	Jun-7-23	Jun-7-23	Jun-7-23
	Rating Type							Necrosis	Control	Control	Control	Control	Stunting	Bleaching	Necrosis
	Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Crop Name							peanut					peanut	peanut	peanut
	Pest Name								Palmer amaranth	Wild radish	annual grasses	carpetweed			
								9	10	11	12	13	14	15	16
1	NTC							0.0 -	0.0 c	0.0 g	0.0 c	0.0 c	0.0 c	0.0 -	0.0 -
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	99.0 a	95.0 a	85.0 ab	99.0 a	11.7 a	0.0 -	0.0 -
	VALOR EZ	4	SC	3.0	oz/a	A	PRE								
	STRONGARM	84	WG	0.225	oz/a	A	PRE								
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	89.7 b	86.7 ab	90.0 ab	97.7 b	3.3 bc	0.0 -	0.0 -
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
	STRONGARM	84	WG	0.225	oz/a	A	PRE								
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	99.0 a	60.0 de	80.0 ab	97.7 b	0.0 c	0.0 -	0.0 -
	VALOR EZ	4	SC	1.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	1.7 -	99.0 a	80.0 bc	93.3 a	99.0 a	5.0 b	0.0 -	0.0 -
	VALOR EZ	4	SC	2.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	3.3 -	99.0 a	91.7 ab	93.3 a	99.0 a	5.0 b	1.7 -	0.0 -
	VALOR EZ	4	SC	3.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	99.0 a	40.0 f	86.7 ab	99.0 a	0.0 c	1.7 -	0.0 -
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	96.3 a	46.7 ef	83.3 ab	99.0 a	1.7 bc	0.0 -	0.0 -
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE								
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	99.0 a	89.7 ab	75.0 b	99.0 a	3.3 bc	0.0 -	0.0 -
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE								
	STRONGARM	84	WG	0.225	oz/a	A	PRE								
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	0.0 -	97.7 a	55.0 de	88.3 ab	99.0 a	1.7 bc	0.0 -	0.0 -
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE								
	BRAKE	1.2	SL	12.0	oz/a	A	PRE								
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	3.3 -	99.0 a	66.7 cd	80.0 ab	99.0 a	1.7 bc	0.0 -	0.0 -
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE								
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	1.7 -	96.3 a	55.0 de	85.0 ab	99.0 a	0.0 c	0.0 -	0.0 -
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE								
LSD P=.10								3.23	4.02	13.45	15.08	1.26	3.79	1.58	.
Standard Deviation								2.30	2.87	9.59	10.76	0.90	2.71	1.12	0.00
CV								276.34	3.21	15.02	13.73	0.99	97.42	404.52	0.0
Grand Mean								0.83	89.42	63.86	78.33	90.53	2.78	0.28	0.00

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.
Could not calculate LSD (% mean diff) for columns 16 because error mean square = 0.
^Calculated from residual.

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	17	18	19	20	21	22	23
	Rating Date							Jun-7-23	Jun-7-23	Jun-7-23	Jun-7-23	Jun-26-23	Jun-26-23	Jun-26-23
	Rating Type							Control	Control	Control	Control	CONTROL	CONTROL	CONTROL
	Rating Unit/Min/Max							%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
	Crop Name													
	Pest Name							Palmer amaranth	Wild radish	annual grasses	small-flower mo>	Palmer amaranth	annual grasses	Wild radish
1	NTC							0.0 d	0.0 d	0.0 d	0.0 f	0.0 e	0.0 d	0.0 c
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	99.0 a	99.0 a	85.0 a	99.0 a	99.0 a	88.3 a	99.0 a
	VALOR EZ	4	SC	3.0	oz/a	A	PRE							
	STRONGARM	84	WG	0.225	oz/a	A	PRE							
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	86.3 c	99.0 a	83.3 a	99.0 a	88.0 cd	88.3 a	99.0 a
	BRAKE	1.2	SL	12.0	oz/a	A	PRE							
	STRONGARM	84	WG	0.225	oz/a	A	PRE							
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	97.7 a	31.7 bc	63.3 c	71.3 bc	96.3 ab	53.3 bc	0.0 c
	VALOR EZ	4	SC	1.0	oz/a	A	PRE							
	BRAKE	1.2	SL	12.0	oz/a	A	PRE							
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	97.7 a	55.0 b	70.0 abc	93.0 ab	97.7 ab	63.3 b	16.7 bc
	VALOR EZ	4	SC	2.0	oz/a	A	PRE							
	BRAKE	1.2	SL	12.0	oz/a	A	PRE							
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	99.0 a	58.3 b	71.7 abc	92.7 ab	99.0 a	63.3 b	36.7 b
	VALOR EZ	4	SC	3.0	oz/a	A	PRE							
	BRAKE	1.2	SL	12.0	oz/a	A	PRE							
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	88.0 bc	16.7 cd	66.7 bc	0.0 f	86.7 d	56.7 bc	0.0 c
	BRAKE	1.2	SL	12.0	oz/a	A	PRE							
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	93.3 abc	33.3 bc	61.7 c	38.3 de	91.7 bcd	51.7 bc	16.7 bc
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE							
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	94.7 ab	99.0 a	80.0 ab	99.0 a	91.7 bcd	83.3 a	99.0 a
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE							
	STRONGARM	84	WG	0.225	oz/a	A	PRE							
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	95.0 ab	43.3 bc	65.0 bc	33.3 e	85.0 d	53.3 bc	10.0 c
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE							
	BRAKE	1.2	SL	12.0	oz/a	A	PRE							
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	97.7 a	35.0 bc	65.0 bc	60.0 cd	96.3 ab	43.3 c	0.0 c
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE							
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	93.3 abc	16.7 cd	66.7 bc	61.7 cd	95.0 abc	58.3 bc	16.7 bc
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE							
	LSD P=.10							7.15	27.53	15.93	24.10	7.16	18.37	21.12
	Standard Deviation							5.10	19.64	11.36	17.19	5.10	13.10	15.07
	CV							5.87	40.14	17.52	27.6	5.97	22.36	45.93
	Grand Mean							86.81	48.92	64.86	62.28	85.53	58.61	32.81

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.
Could not calculate LSD (% mean diff) for columns 16 because error mean square = 0.
^Calculated from residual.

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
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Randomized Complete Block (RCB) AOV For May-17-23 Stunting % 0 100 peanut (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	3063.888889			
Replicate	2	18.055556	9.027778	1.202	0.3197
Treatment	11	2880.555556	261.868687	34.857	0.0001
Error	22	165.277778	7.512626		

Randomized Complete Block (RCB) AOV For May-17-23 Bleaching % 0 100 peanut (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	957.638889			
Replicate	2	5.555556	2.777778	0.478	0.6262
Treatment	11	824.305556	74.936869	12.902	0.0001
Error	22	127.777778	5.808081		

Randomized Complete Block (RCB) AOV For May-17-23 Necrosis % 0 100 peanut (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	455.555556			
Replicate	2	18.055556	9.027778	1.336	0.2833
Treatment	11	288.888889	26.262626	3.888	0.0033
Error	22	148.611111	6.755051		

Randomized Complete Block (RCB) AOV For May-17-23 Control % 0 100 Palmer amaranth (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	26798.750000			
Replicate	2	2.666667	1.333333	1.571	0.2302
Treatment	11	26777.416667	2434.310606	2869.009	0.0001
Error	22	18.666667	0.848485		

Randomized Complete Block (RCB) AOV For May-17-23 Control % 0 100 small-flower morning glory (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	22281.638889			
Replicate	2	345.722222	172.861111	1.610	0.2226
Treatment	11	19573.638889	1779.421717	16.572	0.0001
Error	22	2362.277778	107.376263		

Randomized Complete Block (RCB) AOV For May-17-23 Control % 0 100 annual grasses (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	26081.638889			
Replicate	2	22.222222	11.111111	0.055	0.9462
Treatment	11	21650.305556	1968.209596	9.821	0.0001
Error	22	4409.111111	200.414141		

Randomized Complete Block (RCB) AOV For May-24-23 Stunting % 0 100 peanut (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	672.222222			
Replicate	2	5.555556	2.777778	0.786	0.4682
Treatment	11	588.888889	53.535354	15.143	0.0001
Error	22	77.777778	3.535354		

Randomized Complete Block (RCB) AOV For May-24-23 Bleaching % 0 100 peanut (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	572.222222			
Replicate	2	1.388889	0.694444	0.234	0.7933
Treatment	11	505.555556	45.959596	15.489	0.0001
Error	22	65.277778	2.967172		

Randomized Complete Block (RCB) AOV For May-24-23 Necrosis % 0 100 peanut (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	175.000000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	11	58.333333	5.303030	1.000	0.4767
Error	22	116.666667	5.303030		

Randomized Complete Block (RCB) AOV For May-24-23 Control % 0 100 Palmer amaranth (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	26618.750000			
Replicate	2	31.500000	15.750000	1.913	0.1715
Treatment	11	26406.083333	2400.553030	291.511	0.0001
Error	22	181.166667	8.234848		

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

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Randomized Complete Block (RCB) AOV For May-24-23 Control % 0 100 Wild radish (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	27834.305556			
Replicate	2	873.388889	436.694444	4.747	0.0193
Treatment	11	24936.972222	2266.997475	24.642	0.0001
Error	22	2023.944444	91.997475		

Randomized Complete Block (RCB) AOV For May-24-23 Control % 0 100 annual grasses (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	23950.000000			
Replicate	2	337.500000	168.750000	1.458	0.2543
Treatment	11	21066.666667	1915.151515	16.550	0.0001
Error	22	2545.833333	115.719697		

Randomized Complete Block (RCB) AOV For May-24-23 Control % 0 100 carpetweed (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	26850.972222			
Replicate	2	3.555556	1.777778	2.200	0.1346
Treatment	11	26829.638889	2439.058081	3018.334	0.0001
Error	22	17.777778	0.808081		

Randomized Complete Block (RCB) AOV For Jun-7-23 Stunting % 0 100 peanut (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	572.222222			
Replicate	2	38.888889	19.444444	2.655	0.0927
Treatment	11	372.222222	33.838384	4.621	0.0011
Error	22	161.111111	7.323232		

Randomized Complete Block (RCB) AOV For Jun-7-23 Bleaching % 0 100 peanut (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	47.222222			
Replicate	2	5.555556	2.777778	2.200	0.1346
Treatment	11	13.888889	1.262626	1.000	0.4767
Error	22	27.777778	1.262626		

Randomized Complete Block (RCB) AOV For Jun-7-23 Necrosis % 0 100 peanut (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	0.000000000000			
Replicate	2	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	22	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For Jun-7-23 Control % 0 100 Palmer amaranth (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	25797.638889			
Replicate	2	18.722222	9.361111	0.360	0.7017
Treatment	11	25206.972222	2291.542929	88.145	0.0001
Error	22	571.944444	25.997475		

Randomized Complete Block (RCB) AOV For Jun-7-23 Control % 0 100 Wild radish (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	48366.750000			
Replicate	2	1216.666667	608.333333	1.578	0.2290
Treatment	11	38666.750000	3515.159091	9.116	0.0001
Error	22	8483.333333	385.606061		

Randomized Complete Block (RCB) AOV For Jun-7-23 Control % 0 100 annual grasses (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	18674.305556			
Replicate	2	9.722222	4.861111	0.038	0.9631
Treatment	11	15824.305556	1438.573232	11.143	0.0001
Error	22	2840.277778	129.103535		

Randomized Complete Block (RCB) AOV For Jun-7-23 Control % 0 100 small-flower morning glory (Data Column 20)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	52061.222222			
Replicate	2	57.055556	28.527778	0.097	0.9083
Treatment	11	45505.888889	4136.898990	14.006	0.0001
Error	22	6498.277778	295.376263		

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Randomized Complete Block (RCB) AOV For Jun-26-23 CONTROL % 0 100 Palmer amaranth (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	25270.972222			
Replicate	2	2.888889	1.444444	0.055	0.9462
Treatment	11	24694.972222	2244.997475	86.179	0.0001
Error	22	573.111111	26.050505		

Randomized Complete Block (RCB) AOV For Jun-26-23 CONTROL % 0 100 annual grasses (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	22780.555556			
Replicate	2	405.555556	202.777778	1.181	0.3257
Treatment	11	18597.222222	1690.656566	9.846	0.0001
Error	22	3777.777778	171.717172		

Randomized Complete Block (RCB) AOV For Jun-26-23 CONTROL % 0 100 Wild radish (Data Column 23)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	63965.638889			
Replicate	2	2672.222222	1336.111111	5.885	0.0090
Treatment	11	56298.972222	5118.088384	22.545	0.0001
Error	22	4994.444444	227.020202		

Rating Unit/Min/Max
%, 0, 100 = percent

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Appl Code	Appl Timing	Plot	May-17-23 Stunting %, 0, 100 peanut 1	May-17-23 Bleaching %, 0, 100 peanut 2	May-17-23 Necrosis %, 0, 100 peanut 3	May-17-23 Control %, 0, 100 Palmer amaranth 4	May-17-23 Control %, 0, 100 small-flower mo> 5	May-17-23 Control %, 0, 100 annual grasses 6	May-24-23 Stunting %, 0, 100 peanut 7
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								208	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								312	0.0	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	0.0
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	102	30.0	0.0	5.0	99.0	95.0	95.0	15.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	206	30.0	0.0	10.0	99.0	99.0	90.0	15.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	310	25.0	0.0	5.0	99.0	95.0	90.0	15.0
								Mean =	28.3	0.0	6.7	99.0	96.3	91.7	15.0
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	103	10.0	10.0	0.0	95.0	75.0	65.0	5.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	205	5.0	10.0	0.0	95.0	50.0	95.0	5.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	307	10.0	15.0	0.0	99.0	65.0	95.0	5.0
								Mean =	8.3	11.7	0.0	96.3	63.3	85.0	5.0
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	104	15.0	5.0	0.0	99.0	50.0	65.0	10.0
	VALOR EZ	4	SC	1.0	oz/a	A	PRE	210	10.0	5.0	0.0	95.0	80.0	85.0	5.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	305	10.0	5.0	0.0	99.0	65.0	95.0	5.0
								Mean =	11.7	5.0	0.0	97.7	65.0	81.7	6.7
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	105	25.0	0.0	5.0	99.0	85.0	99.0	10.0
	VALOR EZ	4	SC	2.0	oz/a	A	PRE	204	20.0	0.0	5.0	99.0	75.0	85.0	10.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	309	25.0	0.0	5.0	99.0	85.0	95.0	10.0
								Mean =	23.3	0.0	5.0	99.0	81.7	93.0	10.0
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	106	30.0	0.0	5.0	99.0	99.0	95.0	15.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	207	30.0	0.0	10.0	99.0	99.0	99.0	15.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	308	30.0	0.0	5.0	99.0	85.0	99.0	15.0
								Mean =	30.0	0.0	6.7	99.0	94.3	97.7	15.0
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	107	10.0	15.0	0.0	99.0	50.0	95.0	5.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	211	5.0	5.0	0.0	99.0	65.0	60.0	5.0
								301	5.0	15.0	0.0	99.0	50.0	95.0	5.0
								Mean =	6.7	11.7	0.0	99.0	55.0	83.3	5.0
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	108	10.0	0.0	5.0	99.0	50.0	95.0	5.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	202	10.0	0.0	5.0	99.0	75.0	95.0	10.0
								304	5.0	0.0	5.0	99.0	65.0	60.0	10.0
								Mean =	8.3	0.0	5.0	99.0	63.3	83.3	8.3
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	109	10.0	0.0	5.0	99.0	50.0	95.0	5.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	212	5.0	0.0	0.0	99.0	75.0	65.0	5.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	303	15.0	0.0	10.0	99.0	85.0	85.0	5.0
								Mean =	10.0	0.0	5.0	99.0	70.0	81.7	5.0
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	110	10.0	5.0	0.0	99.0	60.0	85.0	5.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	201	10.0	15.0	10.0	99.0	65.0	95.0	10.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	302	15.0	10.0	10.0	99.0	85.0	95.0	10.0
								Mean =	11.7	10.0	6.7	99.0	70.0	91.7	8.3
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	111	10.0	0.0	5.0	99.0	65.0	85.0	10.0
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE	209	15.0	0.0	5.0	99.0	65.0	95.0	10.0
								311	15.0	0.0	10.0	99.0	85.0	65.0	5.0
								Mean =	13.3	0.0	6.7	99.0	71.7	81.7	8.3
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	112	5.0	0.0	5.0	99.0	65.0	65.0	5.0
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE	203	5.0	0.0	5.0	99.0	65.0	95.0	10.0
								306	5.0	0.0	5.0	99.0	65.0	65.0	5.0
								Mean =	5.0	0.0	5.0	99.0	65.0	75.0	6.7

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Appl Code	Appl Timing	Plot	May-24-23 Bleaching %, 0, 100 peanut	May-24-23 Necrosis %, 0, 100 peanut	May-24-23 Control %, 0, 100 Palmer amaranth	May-24-23 Control %, 0, 100 Wild radish	May-24-23 Control %, 0, 100 annual grasses	May-24-23 Control %, 0, 100 carpetweed	Jun-7-23 Stunting %, 0, 100 peanut	Jun-7-23 Bleaching %, 0, 100 peanut
									8	9	10	11	12	13	14	15
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								208	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								312	0.0	0.0	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	0.0	0.0
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	102	0.0	0.0	99.0	95.0	95.0	99.0	10.0	0.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	206	0.0	0.0	99.0	95.0	95.0	99.0	15.0	0.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	310	0.0	0.0	99.0	95.0	65.0	99.0	10.0	0.0
								Mean =	0.0	0.0	99.0	95.0	85.0	99.0	11.7	0.0
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	103	10.0	0.0	80.0	90.0	85.0	95.0	0.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	205	10.0	0.0	90.0	85.0	95.0	99.0	5.0	0.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	307	10.0	0.0	99.0	85.0	90.0	99.0	5.0	0.0
								Mean =	10.0	0.0	89.7	86.7	90.0	97.7	3.3	0.0
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	104	5.0	0.0	99.0	50.0	85.0	95.0	0.0	0.0
	VALOR EZ	4	SC	1.0	oz/a	A	PRE	210	5.0	0.0	99.0	65.0	70.0	99.0	0.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	305	0.0	0.0	99.0	65.0	85.0	99.0	0.0	0.0
								Mean =	3.3	0.0	99.0	60.0	80.0	97.7	0.0	0.0
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	105	5.0	0.0	99.0	85.0	95.0	99.0	5.0	0.0
	VALOR EZ	4	SC	2.0	oz/a	A	PRE	204	0.0	0.0	99.0	65.0	90.0	99.0	10.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	309	0.0	5.0	99.0	90.0	95.0	99.0	0.0	0.0
								Mean =	1.7	1.7	99.0	80.0	93.3	99.0	5.0	0.0
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	106	0.0	0.0	99.0	85.0	95.0	99.0	10.0	5.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	207	0.0	5.0	99.0	95.0	95.0	99.0	5.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	308	0.0	5.0	99.0	95.0	90.0	99.0	0.0	0.0
								Mean =	0.0	3.3	99.0	91.7	93.3	99.0	5.0	1.7
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	107	10.0	0.0	99.0	30.0	95.0	99.0	0.0	5.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	211	10.0	0.0	99.0	60.0	70.0	99.0	0.0	0.0
								301	10.0	0.0	99.0	30.0	95.0	99.0	0.0	0.0
								Mean =	10.0	0.0	99.0	40.0	86.7	99.0	0.0	1.7
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	108	0.0	0.0	95.0	30.0	90.0	99.0	0.0	0.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	202	0.0	0.0	99.0	50.0	90.0	99.0	5.0	0.0
								304	0.0	0.0	95.0	60.0	70.0	99.0	0.0	0.0
								Mean =	0.0	0.0	96.3	46.7	83.3	99.0	1.7	0.0
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	109	0.0	0.0	99.0	75.0	95.0	99.0	5.0	0.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	212	5.0	0.0	99.0	95.0	65.0	99.0	5.0	0.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	303	0.0	0.0	99.0	99.0	65.0	99.0	0.0	0.0
								Mean =	1.7	0.0	99.0	89.7	75.0	99.0	3.3	0.0
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	110	5.0	0.0	95.0	50.0	85.0	99.0	0.0	0.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	201	5.0	0.0	99.0	50.0	90.0	99.0	0.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	302	10.0	0.0	99.0	65.0	90.0	99.0	5.0	0.0
								Mean =	6.7	0.0	97.7	55.0	88.3	99.0	1.7	0.0
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	111	0.0	10.0	99.0	50.0	90.0	99.0	0.0	0.0
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE	209	0.0	0.0	99.0	65.0	90.0	99.0	5.0	0.0
								311	0.0	0.0	99.0	85.0	60.0	99.0	0.0	0.0
								Mean =	0.0	3.3	99.0	66.7	80.0	99.0	1.7	0.0
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	112	0.0	0.0	95.0	50.0	75.0	99.0	0.0	0.0
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE	203	0.0	5.0	95.0	50.0	90.0	99.0	0.0	0.0
								306	0.0	0.0	99.0	65.0	90.0	99.0	0.0	0.0
								Mean =	0.0	1.7	96.3	55.0	85.0	99.0	0.0	0.0

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	Plot	Jun-7-23 Necrosis %, 0, 100 peanut 16	Jun-7-23 Control %, 0, 100 Palmer amaranth 17	Jun-7-23 Control %, 0, 100 Wild radish 18	Jun-7-23 Control %, 0, 100 annual grasses 19	Jun-7-23 Control %, 0, 100 small-flower mo> 20	Jun-26-23 CONTROL %, 0, 100 Palmer amaranth 21
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								208	0.0	0.0	0.0	0.0	0.0	0.0
								312	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	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	102	0.0	99.0	99.0	95.0	99.0	99.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	206	0.0	99.0	99.0	85.0	99.0	99.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	310	0.0	99.0	99.0	75.0	99.0	99.0
								Mean =	0.0	99.0	99.0	85.0	99.0	99.0
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	103	0.0	75.0	99.0	75.0	99.0	85.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	205	0.0	85.0	99.0	85.0	99.0	80.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	307	0.0	99.0	99.0	90.0	99.0	99.0
								Mean =	0.0	86.3	99.0	83.3	99.0	88.0
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	104	0.0	99.0	0.0	65.0	99.0	99.0
	VALOR EZ	4	SC	1.0	oz/a	A	PRE	210	0.0	95.0	65.0	60.0	50.0	95.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	305	0.0	99.0	30.0	65.0	65.0	95.0
								Mean =	0.0	97.7	31.7	63.3	71.3	96.3
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	105	0.0	99.0	50.0	65.0	99.0	99.0
	VALOR EZ	4	SC	2.0	oz/a	A	PRE	204	0.0	95.0	30.0	65.0	95.0	95.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	309	0.0	99.0	85.0	80.0	85.0	99.0
								Mean =	0.0	97.7	55.0	70.0	93.0	97.7
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	106	0.0	99.0	50.0	70.0	99.0	99.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	207	0.0	99.0	75.0	85.0	80.0	99.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	308	0.0	99.0	50.0	60.0	99.0	99.0
								Mean =	0.0	99.0	58.3	71.7	92.7	99.0
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	107	0.0	99.0	0.0	60.0	0.0	95.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	211	0.0	85.0	30.0	55.0	0.0	90.0
								301	0.0	80.0	20.0	85.0	0.0	75.0
								Mean =	0.0	88.0	16.7	66.7	0.0	86.7
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	108	0.0	90.0	30.0	65.0	0.0	95.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	202	0.0	95.0	50.0	60.0	50.0	95.0
								304	0.0	95.0	20.0	60.0	65.0	85.0
								Mean =	0.0	93.3	33.3	61.7	38.3	91.7
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	109	0.0	95.0	99.0	95.0	99.0	90.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	212	0.0	90.0	99.0	80.0	99.0	90.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	303	0.0	99.0	99.0	65.0	99.0	95.0
								Mean =	0.0	94.7	99.0	80.0	99.0	91.7
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	110	0.0	95.0	50.0	65.0	50.0	80.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	201	0.0	95.0	30.0	60.0	50.0	90.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	302	0.0	95.0	50.0	70.0	0.0	85.0
								Mean =	0.0	95.0	43.3	65.0	33.3	85.0
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	111	0.0	95.0	0.0	75.0	65.0	95.0
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE	209	0.0	99.0	20.0	60.0	50.0	95.0
								311	0.0	99.0	85.0	60.0	65.0	99.0
								Mean =	0.0	97.7	35.0	65.0	60.0	96.3
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	112	0.0	95.0	20.0	50.0	50.0	95.0
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE	203	0.0	95.0	0.0	90.0	85.0	95.0
								306	0.0	90.0	30.0	60.0	50.0	95.0
								Mean =	0.0	93.3	16.7	66.7	61.7	95.0

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BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Timing	Plot	Jun-26-23 CONTROL %, 0, 100 annual grasses 22	Jun-26-23 CONTROL %, 0, 100 Wild radish 23
1	NTC							101	0.0	0.0
								208	0.0	0.0
								312	0.0	0.0
								Mean =	0.0	0.0
2	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	102	95.0	99.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	206	85.0	99.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	310	85.0	99.0
								Mean =	88.3	99.0
3	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	103	95.0	99.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	205	85.0	99.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	307	85.0	99.0
								Mean =	88.3	99.0
4	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	104	65.0	0.0
	VALOR EZ	4	SC	1.0	oz/a	A	PRE	210	30.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	305	65.0	0.0
								Mean =	53.3	0.0
5	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	105	65.0	50.0
	VALOR EZ	4	SC	2.0	oz/a	A	PRE	204	60.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	309	65.0	0.0
								Mean =	63.3	16.7
6	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	106	65.0	60.0
	VALOR EZ	4	SC	3.0	oz/a	A	PRE	207	75.0	50.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	308	50.0	0.0
								Mean =	63.3	36.7
7	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	107	65.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	211	40.0	0.0
								301	65.0	0.0
								Mean =	56.7	0.0
8	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	108	75.0	50.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	202	50.0	0.0
								304	30.0	0.0
								Mean =	51.7	16.7
9	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	109	95.0	99.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	212	80.0	99.0
	STRONGARM	84	WG	0.225	oz/a	A	PRE	303	75.0	99.0
								Mean =	83.3	99.0
10	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	110	60.0	30.0
	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	201	50.0	0.0
	BRAKE	1.2	SL	12.0	oz/a	A	PRE	302	50.0	0.0
								Mean =	53.3	10.0
11	PROWL H20	3.8	SC	32.0	oz/a	A	PRE	111	40.0	0.0
	REXOVOR	4.17	SC	1.5	oz/a	A	PRE	209	40.0	0.0
								311	50.0	0.0
								Mean =	43.3	0.0
12	REXOVOR	4.17	SC	1.0	oz/a	A	PRE	112	40.0	50.0
	SONALAN HFP	3	EC	32.0	oz/a	A	PRE	203	85.0	0.0
								306	50.0	0.0
								Mean =	58.3	16.7

University of Georgia

BRAKE, VALOR, STRONGARM, REXOVOR PRE COMBINATIONS FOR WEED CONTROL IN PEANUTS

Trial ID: PE-13-23
Protocol ID: Location: UGA PONDER FARM Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: ERIC P. PROSTKO Sponsor Contact:
Investigator:

Rating Unit/Min/Max
%, 0, 100 = percent