

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 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 Unit	Form Type	Rate	Appl Description	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3	Rep 4
7	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	EPOST	12.5 mL/mx	1465.6 mL	101	209	306	401
	STORM	4	LB/GAL	SL	16 fl oz/a	EPOST	12.5 mL/mx					
	GRAMOXONE	2	LB/GAL	SL	12 fl oz/a	EPOST	9.375 mL/mx					
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2	12.5 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					
11	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	25.0 mL/mx	1472.7 mL	102	210	305	408
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	2.344 mL/mx					
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2	12.5 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					
	9	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE					
VALOR EZ		4	LB/GAL	SC	3 oz/a	PRE	2.344 mL/mx					
DUAL MAGNUM		7.62	LB/GAL	EC	16 fl oz/a	PRE	12.5 mL/mx					
CADRE		2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
2,4-DB 200		2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
ANTHEM FLEX		4	LB/GAL	SE	3 fl oz/a	POST2	2.344 mL/mx					
INDUCE		90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					
2	STORM	4	LB/GAL	SL	16 fl oz/a	EPOST	12.5 mL/mx	1472 mL	104	205	304	409
	GRAMOXONE	2	LB/GAL	SL	12 fl oz/a	EPOST	9.375 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	EPOST	3.75 mL/mx					
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	EPOST	2.344 mL/mx					
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					
10	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	25.0 mL/mx	1472.7 mL	105	207	302	405
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	2.344 mL/mx					
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2	2.344 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					
	8	PROWLH2O	3.8	LB/GAL	CS	32 fl oz/a	PRE					
VALOR EZ		4	LB/GAL	SC	3 oz/a	PRE	2.344 mL/mx					
DUAL MAGNUM		7.62	LB/GAL	EC	16 fl oz/a	PRE	12.5 mL/mx					
CADRE		2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
2,4-DB 200		2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
DUAL MAGNUM		7.62	LB/GAL	EC	16 fl oz/a	POST2	12.5 mL/mx					
INDUCE		90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					
12	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	25.0 mL/mx	1465.6 mL	107	206	301	410
	BRAKE	1.2	% W/W	SL	12.0 oz/a	PRE	9.375 mL/mx					
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST1	3.125 mL/mx					
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST1	12.5 mL/mx					
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST1	2.344 mL/mx					
	COBRA	2		EC	12.5 oz/a	POST1	9.766 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	POST1	3.75 mL/mx					
5	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	EPOST	12.5 mL/mx	1465.6 mL	108	212	311	406
	STORM	4	LB/GAL	SL	16 fl oz/a	EPOST	12.5 mL/mx					
	GRAMOXONE	2	LB/GAL	SL	12 fl oz/a	EPOST	9.375 mL/mx					
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	12.5 mL/mx					
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2	2.344 mL/mx					
	INDUCE	90 %		SL	0.25 % v/v	POST2	3.75 mL/mx					

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Description	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3	Rep 4
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	12.5 mL/mx	1465.6 mL	109	203	309	407
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	9.375 mL/mx					
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	12.5 mL/mx					
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2	12.5 mL/mx					
	INDUCE	90 %	SL		0.25 % v/v	POST2	3.75 mL/mx					
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	2.344 mL/mx	1472 mL	110	201	303	411
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	12.5 mL/mx					
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	9.375 mL/mx					
	INDUCE				0.25 % v/v	EPOST	3.75 mL/mx					
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2	12.5 mL/mx					
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2	12.5 mL/mx					
	INDUCE	90 %	SL		0.25 % v/v	POST2	3.75 mL/mx					
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	2.344 mL/mx	1478.3 mL	111	204	310	403
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	12.5 mL/mx					
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	9.375 mL/mx					
	INDUCE				0.25 % v/v	EPOST	3.75 mL/mx					
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	3.125 mL/mx					
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2	12.5 mL/mx					
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2	2.344 mL/mx					
	INDUCE	90 %	SL		0.25 % v/v	POST2	3.75 mL/mx					
1	UNTREATED CHECK					Untreated Check		-	112	202	308	402

Sort Order: Replicate 1

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Trial Comments

DIGGING DATE: 09/20/23 (141 DAP)
HARVEST DATE: 09/25/23
HARVEST MOISTURE: 9.9%
YIELDS ADJUSTED TO 10%
2% YIELD DEDUCTION FOR FM

MISSING YIELD DATA IN PLOTS 101/201/301 DUE TO TAG/COMBINE PROBLEMS.

MISSING YIELD DATA IN PLOTS 204/205/404/405 DUE TO PLOT INTEGRITY ISSUES FROM TRACTOR RUTTING WHEN SPRAYED WHEN PLOTS WERE TOO WET EARLIER IN THE YEAR.

ANNUAL GRASSES = NON-UNIFORM MIXTURE OF TEXAS PANICUM, CRABGRASS, CROWFOOTGRASS, GOOSEGRASS, AND SANDBUR. GRASSES WERE ABOUT 1-2" TALL AT ANY APPLICATION.

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

SUMMARY:

- 1) PRE APPLICATIONS OF BRAKE WERE LESS EFFECTIVE ON PALMER AMARANTH AND WILD RADISH CONTROL THAN VALOR IN THIS TEST DUE TO UNTIMELY RAINFALL/IRRIGATION ACTIVATION EVENTS.
- 2) GENERALLY, ANTHEM FLEX CAUSED MORE PEANUT INJURY (STUNTING AND LEAF NECROSIS) THAN DUAL MAGNUM.
- 3) NO MAJOR DIFFERENCES IN WEED CONTROL (PALMER AMARANTH, ANNUAL GRASSES, WILD RADISH, SMALLFLOWER MG) WERE OBSERVED BETWEEN SIMILAR ANTHEM FLEX AND DUAL MAGNUM TREATMENTS.
- 4) ALL HERBICIDE TREATED PLOTS HAD GREATER YIELDS THAN THE NTC. NO DIFFERENCES IN YIELD WERE OBSERVED BETWEEN SIMILAR TREATMENTS OF ANTHEM FLEX OR DUAL MAGNUM. PROWL + BRAKE (PRE) FB CADRE + 2,4-DB + ANTHEM FLEX + COBRA (POST1) TREATED PLOTS HAD HIGHER YIELDS THAN OTHER HERBICIDE TREATMENTS.

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General Trial Information

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

Discipline: H herbicide
Status: E established

ARM Trial Created On: Apr-12-23 **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:

Evaluate Anthem Flex in herbicide programs for weed control in peanuts.

Materials and Methods

Results:

Conclusions:

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Contacts	
<p>Study Director: Blaire Colvin Role: STYDIR study director Organization: FMC Address 1: _____ Address 2: _____ Country: _____ City: _____</p> <p>Investigator: ERIC P. PROSTKO Role: INVEST investigator Organization: UGA Address 1: _____ Address 2: _____ Country: _____ City: _____</p> <p>Sponsor: _____ Role: SPONSR sponsor Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p> <p>Cooperator: _____ Role: COOPER cooperator Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p> <p>Contact Name 5: _____ Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p>	<p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: 2293921034 E-mail: _____ State/Prov: _____ Postal Code: _____</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p>

Crop Description	
<p>Crop 1: C ARHHY Arachis hypogaea peanut Entry Date: May-16-23 Variety: GA-06G Attributes: _____</p> <p>Seed Shape: _____ Perennial Age: _____</p> <p>Nursery Date: _____ Planting Date: May-3-23 Depth: 2 IN Rows per Plot: 4 Row Spacing: _____ Spacing within Row: _____ Soil Temperature: _____</p> <p>Emergence Date: _____</p> <p>Harvest Date: Sep-25-23 Moisture Meter: _____ % Standard Moisture: 10.0 Weighing Equipment: _____</p>	<p>Stage Scale: BBCH BBCH Scale: BPNT</p> <p>Seed Size: _____ Perennial Height: _____</p> <p>Planting Rate: 4 S/ROWFT Planting Method: PLANTD planted Planting Equipment: VP vacuum planter Seed Bed: _____ Soil Moisture: EXCELL excellent</p> <p>Harvest Equipment: _____ Harvested Width: 6 FT Harvested Length: 25 FT</p>

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Pest Description

Pest 1 Type: W Code: RAPRA Raphanus raphanistrum Entry Date: May-16-23
 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: _____

Pest 2 Type: W Code: AMAPA Amaranthus palmeri Entry Date: May-16-23
 Common Name: Amaranth, Palmer 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: IPOLA Ipomoea lacunosa Entry Date: May-16-23
 Common Name: pitted 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: IAQTA Jacquemontia tamnifolia Entry Date: Sep-27-23
 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: _____

Site and Design

Treated Plot Width: 6 FT Site Type: FIELD field
 Treated Plot Length: 25 FT Experimental Unit: _____
 Treated Plot Area: 150.0 FT² Tillage Type: CONTIL conventional-till
 Replications: 4 Treatments: 12 Plots: 48 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.	ZEAMA				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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Application Description

	A	B	C	D
Date	May-4-23	May-16-23	May-25-23	May-31-23
Start Time				
Stop Time	6:30 AM	6:40 AM	7:28 AM	6:41 AM
Standard			PST1	PST2
Method	SPRAY	SPRAY	SPRAY	SPRAY
Timing	PREMCR	EAPOWE		
Placement	BROADC	BROADC	BROADC	BROADC
Mixed/Prepared By				
Applied By	EPP	EPP	EPP	EPP
Entry Date	May-16-23	May-16-23	Sep-27-23	Sep-27-23
Air Temperature Start, Stop	, 48 F	, 69 F	, 59 F	, 68 F
% Relative Humidity Start, Stop		96,	84,	
Wind Velocity+Dir. Start	0 MPH,	3 MPH,	1 MPH,	1 MPH,
Wind Velocity+Dir. Stop				
Wind Velocity+Dir. Max				
Wet Leaves (Y/N)	N, no	Y, yes	Y, yes	Y, yes
Soil Temperature	60 F	76 F	66 F	74 F
Soil Temperature Depth				
Soil Moisture	EXCELL	EXCELL	EXCELL	NORMAL
Soil Surface Condition	SMOOTH	SMOOTH		
% Ground Cover				
% Cloud Cover	0	100	0	100
First Moisture Occurred On	May-11-23			
Time to First Moisture	7.0 DAY			
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?				

Comment:

Protocol Application Directions:

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Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale	ARHHY, BPNT	ARHHY, BPNT	ARHHY, BPNT	ARHHY, BPNT
Days after Emergence				
Stage Majority, Percent		14,	15,	16,
Stage Minimum, Percent				
Stage Maximum, Percent				
Diameter Average				
Diameter Minimum, Maximum				
Height Average		4 IN	4 IN	5 IN
Height Minimum, Maximum				
Density Average				
Density Minimum, Maximum				
Coverage				

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale	RAPRA, W, BBCH	RAPRA, W, BBCH	RAPRA, W, BBCH	RAPRA, W, BBCH
Establishment Interval				
Stage Majority, Percent				
Stage Minimum, Percent				
Stage Maximum, Percent				
Diameter Average				
Diameter Minimum, Maximum				
Height Average		2 IN	3 IN	2 IN
Height Minimum, Maximum		1, 3	1, 4	
Relative Density				
Density Average				
Density Minimum, Maximum				
Coverage				
Crop Part Attacked, Code				
Pest 2 Code, Type, Scale	AMAPA, W, BBCH	AMAPA, W, BBCH	AMAPA, W, BBCH	AMAPA, W, BBCH
Establishment Interval				
Stage Majority, Percent				
Stage Minimum, Percent				
Stage Maximum, Percent				
Diameter Average				
Diameter Minimum, Maximum				
Height Average		0.75 IN	1 IN	2 IN
Height Minimum, Maximum		0.5, 1	0.5, 2	
Relative Density				
Density Average				
Density Minimum, Maximum				
Coverage				
Crop Part Attacked, Code				
Pest 3 Code, Type, Scale	IPOLA, W, BBCH	IPOLA, W, BBCH	IPOLA, W, BBCH	IPOLA, W, BBCH
Establishment Interval				

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Stage Majority, Percent				
Stage Minimum, Percent				
Stage Maximum, Percent				
Diameter Average				
Diameter Minimum, Maximum				
Height Average		2 IN	2 IN	2 IN
Height Minimum, Maximum		1, 3	1, 3	
Relative Density				
Density Average				
Density Minimum, Maximum				
Coverage				
Crop Part Attacked, Code				
Pest 4 Code, Type, Scale	IAQTA, W, BBCH	IAQTA, W, BBCH	IAQTA, W, BBCH	IAQTA, W, BBCH
Establishment Interval				
Stage Majority, Percent				
Stage Minimum, Percent				
Stage Maximum, Percent				
Diameter Average				
Diameter Minimum, Maximum				
Height Average		5 IN	0.5 IN	2 IN
Height Minimum, Maximum		4, 6		
Relative Density				
Density Average				
Density Minimum, Maximum				
Coverage				
Crop Part Attacked, Code				

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Application Equipment

	A	B	C	D
Equipment Name		SAME	SAME	same
Equipment Type	BACCAI			
Operation Pressure	37 PSI			
Nozzle Model	TEEJET			
Nozzle Type				
Nozzle TradeName	AIXR11002			
Nozzle Tip Size, Color				
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	15 GAL/AC			
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	Apr-12-23	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-16-23	Eric P. Prostko	Automatically added by ARM: Status changed to: E: changed by (EGAPRE).
STATUS	May-16-23	Eric P. Prostko	Automatically added by ARM: Trial Status updated to 'E' when Rating 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:

GENERAL

TITLE	Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves
OBJECTIVE	Evaluate Anthem Flex in herbicide programs for weed control in peanuts.
PROTOCOL COORDINATOR	Blaire Colvin
TRIAL TYPE	H-Herbicide

TRIAL LAYOUT/DESIGN

DESIGN	RCB
REPS	4
PLOT WIDTH/LENGTH	12 X 30 ft
PLOT AREA	360 ft sq

TIMING (APPL)

TIMING No.	CODE	DESCRIPTION	MIN APPS	APP INTERVAL	MAX APPS	SPRAYER DEFAULT
0	UNTRCHK	Untreated Timing	0	0	0	
A = 1	PREMCR	Preemergence - At Plant	1	0	1	
B = 2	EAPOWE	Early Postemergence 15-25 DAP (at cracking)	1	0	1	
C = 3	POSPOS	Postemergence 30-45 DAP	1	0	1	

TREATMENTS

NO.	TRT.	DESCRIPTION	PART	COMPONENT	LOT#	RATE	UNIT	FORM_CONC	TIMING(APPL)
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University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

1	999	Untreated Check	A						0 UNTRCHK
2	2	GX 12 + Storm 16 + AF 3 EPOST fb Cadre 4 + DB 16 POST	A	STORM	16	fl ozP/ac	SL 4.00 lb/gal		2 EAPOWE
			B	GRAMOXONE	12	fl ozP/ac	SL 200 g/L		2 EAPOWE
			C	INDUCE	0.25	%v/v	SL 90 %v/v		2 EAPOWE
			D	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal		2 EAPOWE
			E	CADRE	4	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			F	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v		3 POSPOS
3	3	GX 12 + Storm 16 + DMag 16 EPOST fb Cadre 4 + DB 16 POST	A	STORM	16	fl ozP/ac	SL 4.00 lb/gal		2 EAPOWE
			B	GRAMOXONE	12	fl ozP/ac	SL 200 g/L		2 EAPOWE
			C	INDUCE	0.25	%v/v	SL 90 %v/v		2 EAPOWE
			D	DUAL II MAGNUM (7.64EC)	16	fl ozP/ac	EC 7.64 lb/gal		2 EAPOWE
			E	CADRE	4	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			F	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v		3 POSPOS
4	4	AF 3 + GX 12 + Storm 16 EPOST fb Cadre 4 + DB 16 + DMag 16 POST	A	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal		2 EAPOWE
			B	STORM	16	fl ozP/ac	SL 4.00 lb/gal		2 EAPOWE
			C	GRAMOXONE	12	fl ozP/ac	SL 200 g/L		2 EAPOWE
			D	CADRE	4	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			E	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			F	DUAL MAGNUM	16	fl ozP/ac	EC 7.62 lb/gal		3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v		3 POSPOS

Cropping Considerations:

5	5	DMag 16 + GX 12 + Storm 16 EPOST fb Cadre 4 + DB 16 + AF 3 POST	A	DUAL II MAGNUM (7.64EC)	16	fl ozP/ac	EC 7.64 lb/gal		2 EAPOWE
			B	STORM	16	fl ozP/ac	SL 4.00 lb/gal		2 EAPOWE
			C	GRAMOXONE	12	fl ozP/ac	SL 200 g/L		2 EAPOWE
			D	CADRE	4	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			E	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			F	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal		3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v		3 POSPOS
6	6	AF 3 + GX 12 + Storm 16 EPOST fb Cadre 4 + DB 16 + AF 3 POST	A	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal		2 EAPOWE
			B	STORM	16	fl ozP/ac	SL 4.00 lb/gal		2 EAPOWE
			C	GRAMOXONE	12	fl ozP/ac	SL 200 g/L		2 EAPOWE
			D	CADRE	4	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			E	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal		3 POSPOS
			F	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal		3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v		3 POSPOS

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

7	7	DMag 16 + GX 12 + Storm 16 EPOST fb Cadre 4 + DB 16 + DMag 16 POST	A	DUAL MAGNUM	16	fl ozP/ac	EC 7.62 lb/gal	2 EAPOWE
			B	STORM	16	fl ozP/ac	SL 4.00 lb/gal	2 EAPOWE
			C	GRAMOXONE	12	fl ozP/ac	SL 200 g/L	2 EAPOWE
			D	CADRE	4	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			E	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			F	DUAL MAGNUM	16	fl ozP/ac	EC 7.62 lb/gal	3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v	3 POSPOS
8	800	Prowl 32 oz/A + Valor 3 oz/A + DMag 16 PRE fb Cadre 4 + DB 16 + DMag 16 POST	A	PROWLH2O	32	fl ozP/ac	CS 3.80 lb/gal	1 PREMCR
			B	VALOR	3	ozP/ac	WG 51 %w/w	1 PREMCR
			C	DUAL MAGNUM	16	fl ozP/ac	EC 7.62 lb/gal	1 PREMCR
			D	CADRE	4	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			E	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			F	DUAL MAGNUM	16	fl ozP/ac	EC 7.62 lb/gal	3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v	3 POSPOS
9	700	Prowl 32 oz/A + Valor 3 oz/A + DMag 16 PRE fb Cadre 4 + DB 16 + AF 3 POST	A	PROWLH2O	32	fl ozP/ac	CS 3.80 lb/gal	1 PREMCR
			B	VALOR	3	ozP/ac	WG 51 %w/w	1 PREMCR
			C	DUAL MAGNUM	16	fl ozP/ac	EC 7.62 lb/gal	1 PREMCR
			D	CADRE	4	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			E	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			F	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal	3 POSPOS
			G	INDUCE	0.25	%v/v	SL 90 %v/v	3 POSPOS
10	10	Prowl 32 oz/A + Valor 3 oz/A PRE fb Cadre 4 + DB 16 + AF 3 POST	A	PROWLH2O	32	fl ozP/ac	CS 3.80 lb/gal	1 PREMCR
			B	VALOR	3	ozP/ac	WG 51 %w/w	1 PREMCR
			C	CADRE	4	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			D	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			E	ANTHEM FLEX	3	fl ozP/ac	SE 4.0000 lb/gal	3 POSPOS
			F	INDUCE	0.25	%v/v	SL 90 %v/v	3 POSPOS
11	11	Prowl 32 oz/A + Valor 3 oz/A PRE fb Cadre 4 + DB 16 + DMag 16 POST	A	PROWLH2O	32	fl ozP/ac	CS 3.80 lb/gal	1 PREMCR
			B	VALOR	3	ozP/ac	WG 51 %w/w	1 PREMCR
			C	CADRE	4	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			D	2,4-DB 200	16	fl ozP/ac	SL 2 lb/gal	3 POSPOS
			E	DUAL II MAGNUM (7.64EC)	16	fl ozP/ac	EC 7.64 lb/gal	3 POSPOS
			F	INDUCE	0.25	%v/v	SL 90 %v/v	3 POSPOS

Data to Collect:

Statistical Analysis:

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date					May-16-23	May-16-23	May-16-23	May-16-23	May-23-23	May-23-23	May-23-23		
Part Rated					PLANT, -	PLANT, -			PHYSTU	PHYBLE	PHYNEC		
Rating Type					% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Rating Unit/Min/Max					peanut	peanut	Palmer amaranth	Wild radish	peanut	peanut	peanut		
Crop Name													
Pest Name													
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	1	2	3	4	5	6	7
1	UNTREATED CHECK					Untreated Check	0.0 b	0.0 b	0.0 c	0.0 c	0.0 h	0.0 b	0.0 e
2	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	0.0 b	0.0 b	0.0 c	0.0 c	13.8 bc	0.0 b	17.5 ab
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST							
	INDUCE	90 %	SL		0.25 % v/v	EPOST							
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	0.0 b	0.0 b	0.0 c	0.0 c	11.3 cd	0.0 b	15.0 cd
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST							
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	0.0 b	0.0 b	0.0 c	0.0 c	17.5 a	0.0 b	18.8 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST							
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST							
	INDUCE				0.25 % v/v	EPOST							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	0.0 b	0.0 b	0.0 c	0.0 c	7.5 ef	0.0 b	15.0 cd
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST							
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	0.0 b	0.0 b	0.0 c	0.0 c	15.0 ab	0.0 b	16.3 bc
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST							
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST							
	INDUCE				0.25 % v/v	EPOST							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	0.0 b	0.0 b	0.0 c	0.0 c	5.0 fg	0.0 b	13.8 d
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST							
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							
8	PROWLH2O	3.8 LB/GAL	CS		32 fl oz/a	PRE	27.5 a	0.0 b	99.0 a	99.0 a	8.8 de	0.0 b	0.0 e
	VALOR EZ	4 LB/GAL	SC		3 oz/a	PRE							
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	PRE							
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2							
	INDUCE	90 %	SL		0.25 % v/v	POST2							

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.
 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date	Part Rated	Rating Type	Rating Unit/Min/Max	Crop Name	Pest Name	May-16-23 PLANT, - PHYSTU %, 0, 100 peanut	May-16-23 PLANT, - PHYBLE %, 0, 100 peanut	May-16-23 %, 0, 100 Palmer amaranth	May-16-23 %, 0, 100 Wild radish	May-23-23 PHYSTU %, 0, 100 peanut	May-23-23 PHYBLE %, 0, 100 peanut	May-23-23 PHYNEC %, 0, 100 peanut		
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Description	1	2	3	4	5	6	7
9	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	PRE	28.8 a	0.0 b	99.0 a	99.0 a	7.5 ef	0.0 b	0.0 e
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	PRE							
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	PRE	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	POST2							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	POST2							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2	POST2							
10	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	PRE	26.3 a	0.0 b	99.0 a	99.0 a	6.3 ef	0.0 b	0.0 e
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	POST2							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	POST2							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2	POST2							
11	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	PRE	27.5 a	0.0 b	99.0 a	99.0 a	7.5 ef	0.0 b	1.3 e
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	POST2							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	POST2							
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2	POST2							
12	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	PRE	1.3 b	7.5 a	93.5 b	43.8 b	2.5 gh	8.8 a	0.0 e
	BRAKE	1.2	%W/W	SL	12.0 oz/a	PRE	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST1	POST1							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST1	POST1							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST1	POST1							
	COBRA	2		EC	12.5 oz/a	POST1	POST1							
	INDUCE	90 %		SL	0.25 % v/v	POST1	POST1							
	LSD P=.10							2.59	1.00	2.06	9.50	2.60	0.86	1.97
	Standard Deviation							2.17	0.83	1.72	7.94	2.18	0.72	1.65
	CV							23.35	133.33	4.23	21.66	25.47	98.97	20.28
	Grand Mean							9.27	0.63	40.79	36.65	8.54	0.73	8.13

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.
 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date			May-23-23	May-23-23	May-23-23	Jun-6-23	Jun-6-23	Jun-6-23				
Part Rated						PHYSTU	PHYNEC					
Rating Type			% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100				
Rating Unit/Min/Max						peanut	peanut					
Crop Name			Palmer amaranth	Wild radish	annual grasses			Palmer amaranth				
Pest Name												
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	8	9	10	11	12	13
1	UNTREATED CHECK				Untreated Check		0.0 c	0.0 d	0.0 d	0.0 g	0.0 c	0.0 c
2	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	99.0 a	86.0 ab	96.0 bc	16.3 bc	1.3 c	99.0 a
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE	90 %	SL		0.25 % v/v	EPOST						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	99.0 a	91.3 ab	98.0 ab	12.5 def	2.5 c	99.0 a
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	99.0 a	89.5 ab	97.0 abc	18.8 ab	2.5 c	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE				0.25 % v/v	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	99.0 a	89.5 ab	99.0 a	15.0 cd	28.8 a	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	99.0 a	87.3 ab	98.0 ab	20.0 a	27.5 a	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE				0.25 % v/v	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	99.0 a	94.5 a	99.0 a	11.3 ef	0.0 c	98.0 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
8	PROWLH2O	3.8 LB/GAL	CS		32 fl oz/a	PRE	99.0 a	95.8 a	98.0 ab	12.5 def	0.0 c	99.0 a
	VALOR EZ	4 LB/GAL	SC		3 oz/a	PRE						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	PRE						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						

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.
 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date									
Part Rated	May-23-23	May-23-23	May-23-23	Jun-6-23	Jun-6-23	Jun-6-23			
Rating Type									
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	PHYSTU % , 0, 100	PHYNEC % , 0, 100	% , 0, 100			
Crop Name									
Pest Name	Palmer amaranth	Wild radish	annual grasses	peanut	peanut	Palmer amaranth			
Trt No.	8	9	10	11	12	13			
Treatment Name									
Form Conc									
Form Unit									
Form Type									
Rate									
Rate Unit									
Appl Description									
9	PROWL H2O VALOR EZ DUAL MAGNUM CADRE 2,4-DB 200 ANTHEM FLEX INDUCE	3.8 LB/GAL CS 4 LB/GAL SC 7.62 LB/GAL EC 2 LB/GAL SL 2 LB/GAL SL 4 LB/GAL SE 90 % SL	32 fl oz/a PRE 3 oz/a PRE 16 fl oz/a PRE 4 fl oz/a POST2 16 fl oz/a POST2 3 fl oz/a POST2 0.25 % v/v POST2	99.0 a	94.8 a	96.0 bc	15.0 cd	26.3 a	99.0 a
10	PROWL H2O VALOR EZ CADRE 2,4-DB 200 ANTHEM FLEX INDUCE	3.8 LB/GAL CS 4 LB/GAL SC 2 LB/GAL SL 2 LB/GAL SL 4 LB/GAL SE 90 % SL	32 fl oz/a PRE 3 oz/a PRE 4 fl oz/a POST2 16 fl oz/a POST2 3 fl oz/a POST2 0.25 % v/v POST2	99.0 a	77.3 b	97.0 abc	15.0 cd	27.5 a	99.0 a
11	PROWL H2O VALOR EZ CADRE 2,4-DB 200 DUAL MAGNUM INDUCE	3.8 LB/GAL CS 4 LB/GAL SC 2 LB/GAL SL 2 LB/GAL SL 7.62 LB/GAL EC 90 % SL	32 fl oz/a PRE 3 oz/a PRE 4 fl oz/a POST2 16 fl oz/a POST2 16 fl oz/a POST2 0.25 % v/v POST2	99.0 a	85.8 ab	97.0 abc	13.8 cde	0.0 c	99.0 a
12	PROWL H2O BRAKE CADRE 2,4-DB 200 ANTHEM FLEX COBRA INDUCE	3.8 LB/GAL CS 1.2 %W/W SL 2 LB/GAL SL 2 LB/GAL SL 4 LB/GAL SE 2 EC 90 % SL	32 fl oz/a PRE 12.0 oz/a PRE 4 fl oz/a POST1 16 fl oz/a POST1 3 fl oz/a POST1 12.5 oz/a POST1 0.25 % v/v POST1	95.8 b	55.0 c	95.0 c	10.0 f	15.0 b	99.0 a
LSD P=.10	1.48	15.69	2.13	2.59	2.79	0.69			
Standard Deviation	1.23	13.11	1.78	2.16	2.33	0.58			
CV	1.36	16.62	1.99	16.21	21.33	0.64			
Grand Mean	90.48	78.88	89.17	13.33	10.94	90.67			

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.
 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date						Jun-6-23	Jun-6-23	Jun-6-23	Jun-28-23	Jun-28-23	Jun-28-23	
Part Rated									PLANT, -			
Rating Type									PHYSTU			
Rating Unit/Min/Max						% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	
Crop Name									peanut			
Pest Name						Wild radish	annual grasses	small-flower mo>		Palmer amaranth	Wild radish	
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	14	15	16	17	18	19
1	UNTREATED CHECK					Untreated Check	0.0 c	0.0 b	0.0 b	0.0 f	0.0 b	0.0 b
2	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	99.0 a	99.0 a	99.0 a	13.3 abc	99.0 a	99.0 a
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE	90 %	SL		0.25 % v/v	EPOST						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	98.0 a	99.0 a	99.0 a	8.8 cde	99.0 a	99.0 a
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	99.0 a	99.0 a	99.0 a	12.5 bcd	99.0 a	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE				0.25 % v/v	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	99.0 a	99.0 a	99.0 a	15.0 ab	99.0 a	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	98.0 a	99.0 a	99.0 a	18.3 a	99.0 a	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE				0.25 % v/v	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	98.0 a	99.0 a	99.0 a	5.0 ef	99.0 a	99.0 a
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
8	PROWLH2O	3.8 LB/GAL	CS		32 fl oz/a	PRE	98.0 a	98.0 a	99.0 a	7.5 de	99.0 a	99.0 a
	VALOR EZ	4 LB/GAL	SC		3 oz/a	PRE						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	PRE						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						

Means followed by same letter or symbol do not significantly differ (P= .10, LSD).
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 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date				Jun-6-23	Jun-6-23	Jun-6-23	Jun-28-23	Jun-28-23	Jun-28-23			
Part Rated							PLANT, -					
Rating Type							PHYSTU					
Rating Unit/Min/Max				% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Crop Name							peanut					
Pest Name				Wild radish	annual grasses	small-flower mo>		Palmer amaranth	Wild radish			
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	14	15	16	17	18	19
9	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	98.0 a	98.0 a	99.0 a	15.0 ab	99.0 a	99.0 a
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE						
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	PRE						
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2						
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2						
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
10	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	93.5 b	98.0 a	99.0 a	13.3 abc	99.0 a	99.0 a
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE						
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2						
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2						
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
11	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	97.0 a	98.0 a	99.0 a	8.8 cde	99.0 a	99.0 a
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE						
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2						
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2						
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
12	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	99.0 a	99.0 a	99.0 a	3.8 ef	99.0 a	99.0 a
	BRAKE	1.2	%W/W	SL	12.0 oz/a	PRE						
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST1						
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST1						
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST1						
	COBRA	2		EC	12.5 oz/a	POST1						
	INDUCE	90 %		SL	0.25 % v/v	POST1						
	LSD P=.10						2.64	1.36	.	5.53	.	.
	Standard Deviation						2.20	1.14	0.00	4.61	0.00	0.00
	CV						2.46	1.26	0.0	45.59	0.0	0.0
	Grand Mean						89.71	90.42	90.75	10.10	90.75	90.75

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 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date			Jun-28-23	Jul-24-23	Jul-24-23	Jul-24-23	Sep-25-23	Sep-25-23				
Part Rated							YIELD, -	YIELD, -				
Rating Type												
Rating Unit/Min/Max			% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	lb/plot, -, -	lb/plot, -, -				
Crop Name			annual grasses	Palmer amaranth	annual grasses	small-flower mo>	peanut	peanut				
Pest Name												
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	20	21	22	23	24	25
1	UNTREATED CHECK					Untreated Check	0.0 b	0.0 c	0.0 b	0.0 b	0.00 c	0.0 c
2	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	99.0 a	98.0 ab	99.0 a	99.0 a	17.83 b	17.5 b
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE	90 %	SL		0.25 % v/v	EPOST						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	99.0 a	98.0 ab	98.0 a	99.0 a	17.83 b	17.5 b
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	99.0 a	98.0 ab	98.0 a	99.0 a	16.80 b	16.5 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE				0.25 % v/v	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	99.0 a	99.0 a	98.0 a	99.0 a	18.08 b	17.7 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	99.0 a	97.0 b	98.0 a	99.0 a	16.00 b	15.7 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	INDUCE				0.25 % v/v	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	99.0 a	99.0 a	99.0 a	99.0 a	18.27 b	17.9 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST						
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						
8	PROWLH2O	3.8 LB/GAL	CS		32 fl oz/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	17.50 b	17.2 b
	VALOR EZ	4 LB/GAL	SC		3 oz/a	PRE						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	PRE						
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2						
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2						
	INDUCE	90 %	SL		0.25 % v/v	POST2						

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 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date		Jun-28-23		Jul-24-23		Jul-24-23		Jul-24-23		Sep-25-23		Sep-25-23	
Part Rated										YIELD, -		YIELD, -	
Rating Type										lb/plot, -, -		lb/plot, -, -	
Rating Unit/Min/Max		%, 0, 100		%, 0, 100		%, 0, 100		%, 0, 100		peanut		peanut	
Crop Name		annual grasses		Palmer amaranth		annual grasses		small-flower mo>					
Pest Name													
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	20	21	22	23	24	25	
9	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	99.0 a	97.0 b	98.0 a	99.0 a	17.20 b	16.9 b	
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE							
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
10	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	17.68 b	17.3 b	
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
11	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	99.0 a	98.0 ab	99.0 a	99.0 a	18.25 b	17.9 b	
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2							
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
12	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	99.0 a	98.0 ab	98.0 a	99.0 a	22.03 a	21.6 a	
	BRAKE	1.2	%W/W	SL	12.0 oz/a	PRE							
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST1							
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST1							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST1							
	COBRA	2		EC	12.5 oz/a	POST1							
	INDUCE	90 %		SL	0.25 % v/v	POST1							
	LSD P=.10							1.80	1.61		2.330	2.28	
	Standard Deviation						0.00	1.51	1.35	0.00	1.942	1.90	
	CV						0.0	1.68	1.49	0.0	11.8	11.8	
	Grand Mean						90.75	90.00	90.25	90.75	16.454	16.13	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date						Sep-25-23
Part Rated						YIELD, -
Rating Type						YIELD
Rating Unit/Min/Max						lb/ac, -, -
Crop Name						peanut
Pest Name						
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description
1	UNTREATED CHECK					Untreated Check 0 c
2	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST 5078 b
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST
	INDUCE	90 %	SL		0.25 % v/v	EPOST
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST 5078 b
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST 4786 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST
	INDUCE				0.25 % v/v	EPOST
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST 5150 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST 4559 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST
	INDUCE				0.25 % v/v	EPOST
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST 5204 b
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2
8	PROWLH2O	3.8 LB/GAL	CS		32 fl oz/a	PRE 4986 b
	VALOR EZ	4 LB/GAL	SC		3 oz/a	PRE
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	PRE
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2
	INDUCE	90 %	SL		0.25 % v/v	POST2

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.
 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date	Sep-25-23					
Part Rated	YIELD, -					
Rating Type	YIELD					
Rating Unit/Min/Max	lb/ac, -, -					
Crop Name	peanut					
Pest Name						
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description
9	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	PRE
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2
	INDUCE	90 %		SL	0.25 % v/v	POST2
10	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2
	INDUCE	90 %		SL	0.25 % v/v	POST2
11	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2
	INDUCE	90 %		SL	0.25 % v/v	POST2
12	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE
	BRAKE	1.2	%W/W	SL	12.0 oz/a	PRE
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST1
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST1
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST1
	COBRA	2		EC	12.5 oz/a	POST1
	INDUCE	90 %		SL	0.25 % v/v	POST1
LSD P=.10						663.9
Standard Deviation						553.1
CV						11.8
Grand Mean						4687.9

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.
 Missing data estimates are included in columns: Average=17,24,25,26
 Could not calculate LSD (% mean diff) for columns 16,18,19,20,23 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

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Randomized Complete Block (RCB) AOV For May-16-23 PLANT PHYSTU % 0 100 peanut (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	8149.479167			
Replicate	3	1.562500	0.520833	0.111	0.9530
Treatment	11	7993.229167	726.657197	155.020	0.0001
Error	33	154.687500	4.687500		

Randomized Complete Block (RCB) AOV For May-16-23 PLANT PHYBLE % 0 100 peanut (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	231.250000			
Replicate	3	2.083333	0.694444	1.000	0.4051
Treatment	11	206.250000	18.750000	27.000	0.0001
Error	33	22.916667	0.694444		

Randomized Complete Block (RCB) AOV For May-16-23 % 0 100 Palmer amaranth (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	112021.916667			
Replicate	3	8.916667	2.972222	1.000	0.4051
Treatment	11	111914.916667	10174.083333	3423.056	0.0001
Error	33	98.083333	2.972222		

Randomized Complete Block (RCB) AOV For May-16-23 % 0 100 Wild radish (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	102280.979167			
Replicate	3	189.062500	63.020833	1.000	0.4051
Treatment	11	100012.229167	9092.020833	144.270	0.0001
Error	33	2079.687500	63.020833		

Randomized Complete Block (RCB) AOV For May-23-23 PHYSTU % 0 100 peanut (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	1347.916667			
Replicate	3	43.750000	14.583333	3.080	0.0408
Treatment	11	1147.916667	104.356061	22.040	0.0001
Error	33	156.250000	4.734848		

Randomized Complete Block (RCB) AOV For May-23-23 PHYBLE % 0 100 peanut (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	299.479167			
Replicate	3	1.562500	0.520833	1.000	0.4051
Treatment	11	280.729167	25.520833	49.000	0.0001
Error	33	17.187500	0.520833		

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	3181.250000			
Replicate	3	10.416667	3.472222	1.279	0.2977
Treatment	11	3081.250000	280.113636	103.186	0.0001
Error	33	89.583333	2.714646		

Randomized Complete Block (RCB) AOV For May-23-23 % 0 100 Palmer amaranth (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35815.979167			
Replicate	3	4.562500	1.520833	1.000	0.4051
Treatment	11	35761.229167	3251.020833	2137.658	0.0001
Error	33	50.187500	1.520833		

Randomized Complete Block (RCB) AOV For May-23-23 % 0 100 Wild radish (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	39643.250000			
Replicate	3	1482.750000	494.250000	2.875	0.0509
Treatment	11	32487.750000	2953.431818	17.181	0.0001
Error	33	5672.750000	171.901515		

Randomized Complete Block (RCB) AOV For May-23-23 % 0 100 annual grasses (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	34866.666667			
Replicate	3	3.666667	1.222222	0.387	0.7634
Treatment	11	34758.666667	3159.878788	999.450	0.0001
Error	33	104.333333	3.161616		

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Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
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 Investigator: ERIC P. PROSTKO

Randomized Complete Block (RCB) AOV For Jun-6-23 PHYSTU % 0 100 peanut (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	1316.666667			
Replicate	3	20.833333	6.944444	1.486	0.2362
Treatment	11	1141.666667	103.787879	22.216	0.0001
Error	33	154.166667	4.671717		

Randomized Complete Block (RCB) AOV For Jun-6-23 PHYNEC % 0 100 peanut (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	7532.812500			
Replicate	3	26.562500	8.854167	1.626	0.2021
Treatment	11	7326.562500	666.051136	122.322	0.0001
Error	33	179.687500	5.445076		

Randomized Complete Block (RCB) AOV For Jun-6-23 % 0 100 Palmer amaranth (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35886.666667			
Replicate	3	1.000000	0.333333	1.000	0.4051
Treatment	11	35874.666667	3261.333333	9784.000	0.0001
Error	33	11.000000	0.333333		

Randomized Complete Block (RCB) AOV For Jun-6-23 % 0 100 Wild radish (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35399.916667			
Replicate	3	22.916667	7.638889	1.575	0.2140
Treatment	11	35216.916667	3201.537879	659.973	0.0001
Error	33	160.083333	4.851010		

Randomized Complete Block (RCB) AOV For Jun-6-23 % 0 100 annual grasses (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35731.666667			
Replicate	3	5.333333	1.777778	1.375	0.2675
Treatment	11	35683.666667	3243.969697	2509.008	0.0001
Error	33	42.666667	1.292929		

Randomized Complete Block (RCB) AOV For Jun-6-23 % 0 100 small-flower morning glory (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Jun-28-23 PLANT PHYSTU % 0 100 peanut (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	1941.145833			
Replicate	3	40.914352	13.638117	0.643	0.5938
Treatment	11	1284.895833	116.808712	5.505	0.0001
Error	29	615.335648	21.218471		

Randomized Complete Block (RCB) AOV For Jun-28-23 % 0 100 Palmer amaranth (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Jun-28-23 % 0 100 Wild radish (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Jun-28-23 % 0 100 annual grasses (Data Column 20)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

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Randomized Complete Block (RCB) AOV For Jul-24-23 % 0 100 Palmer amaranth (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35460.000000			
Replicate	3	17.000000	5.666667	2.493	0.0771
Treatment	11	35368.000000	3215.272727	1414.720	0.0001
Error	33	75.000000	2.272727		

Randomized Complete Block (RCB) AOV For Jul-24-23 % 0 100 annual grasses (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35625.000000			
Replicate	3	12.000000	4.000000	2.200	0.1066
Treatment	11	35553.000000	3232.090909	1777.650	0.0001
Error	33	60.000000	1.818182		

Randomized Complete Block (RCB) AOV For Jul-24-23 % 0 100 small-flower morning glory (Data Column 23)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For Sep-25-23 YIELD lb/plot peanut (Data Column 24)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	44	1410.508056			
Replicate	3	24.510463	8.170154	2.167	0.1126
Treatment	11	1272.914722	115.719520	30.699	0.0001
Error	30	113.082870	3.769429		

Randomized Complete Block (RCB) AOV For Sep-25-23 YIELD lb/plot peanut (Data Column 25)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	44	1354.651937			
Replicate	3	23.539849	7.846616	2.167	0.1126
Treatment	11	1222.507299	111.137027	30.699	0.0001
Error	30	108.604789	3.620160		

Randomized Complete Block (RCB) AOV For Sep-25-23 YIELD YIELD lb/ac peanut (Data Column 26)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	44	114494733.173710			
Replicate	3	1989580.212504	663193.404168	2.167	0.1126
Treatment	11	103325912.177309	9393264.743392	30.699	0.0001
Error	30	9179240.783897	305974.692797		

Part Rated
 PLANT = plant
 YIELD = yield
Rating Type
 PHYSTU = phytotoxicity - stunting
 PHYBLE = phytotoxicity - bleaching
 PHYNEC = phytotoxicity - necrosis /burn
 YIELD = yield
Rating Unit/Min/Max
 %, 0, 100 = percent
 lb/plot, , = pounds per plot
 lb/ac, , = pounds per acre
ARM Action Codes
 T1 = [24]^0.98
 TY2 = 290.72266667*[25]

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Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date	Part Rated	Rating Type	Rating Unit/Min/Max	Crop Name	Pest Name	May-16-23 PLANT, - PHYSTU %, 0, 100 peanut	May-16-23 PLANT, - PHYBLE %, 0, 100 peanut	May-16-23 %, 0, 100 Palmer amaranth	May-16-23 %, 0, 100 Wild radish	May-23-23 PHYSTU %, 0, 100 peanut	May-23-23 PHYBLE %, 0, 100 peanut	May-23-23 PHYNEC %, 0, 100 peanut		
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	Plot	1	2	3	4	5	6	7
1	UNTREATED CHECK					Untreated Check	112	0.0	0.0	0.0	0.0	0.0	0.0	0.0
							202	0.0	0.0	0.0	0.0	0.0	0.0	0.0
							308	0.0	0.0	0.0	0.0	0.0	0.0	0.0
							402	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	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	104	0.0	0.0	0.0	0.0	15.0	0.0	20.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	205	0.0	0.0	0.0	0.0	10.0	0.0	15.0
	INDUCE	90 %	SL		0.25 % v/v	EPOST	304	0.0	0.0	0.0	0.0	15.0	0.0	15.0
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	409	0.0	0.0	0.0	0.0	15.0	0.0	20.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2								
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2								
	INDUCE	90 %	SL		0.25 % v/v	POST2								
						Mean =		0.0	0.0	0.0	0.0	13.8	0.0	17.5
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	109	0.0	0.0	0.0	0.0	10.0	0.0	15.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	203	0.0	0.0	0.0	0.0	10.0	0.0	15.0
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	309	0.0	0.0	0.0	0.0	10.0	0.0	15.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	407	0.0	0.0	0.0	0.0	15.0	0.0	15.0
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2								
	INDUCE	90 %	SL		0.25 % v/v	POST2								
						Mean =		0.0	0.0	0.0	0.0	11.3	0.0	15.0
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	110	0.0	0.0	0.0	0.0	20.0	0.0	20.0
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	201	0.0	0.0	0.0	0.0	15.0	0.0	15.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	303	0.0	0.0	0.0	0.0	15.0	0.0	20.0
	INDUCE				0.25 % v/v	EPOST	411	0.0	0.0	0.0	0.0	20.0	0.0	20.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2								
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2								
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2								
	INDUCE	90 %	SL		0.25 % v/v	POST2								
						Mean =		0.0	0.0	0.0	0.0	17.5	0.0	18.8
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	108	0.0	0.0	0.0	0.0	10.0	0.0	15.0
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	212	0.0	0.0	0.0	0.0	5.0	0.0	15.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	311	0.0	0.0	0.0	0.0	5.0	0.0	15.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	406	0.0	0.0	0.0	0.0	10.0	0.0	15.0
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2								
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2								
	INDUCE	90 %	SL		0.25 % v/v	POST2								
						Mean =		0.0	0.0	0.0	0.0	7.5	0.0	15.0
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	111	0.0	0.0	0.0	0.0	15.0	0.0	15.0
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	204	0.0	0.0	0.0	0.0	15.0	0.0	20.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	310	0.0	0.0	0.0	0.0	15.0	0.0	15.0
	INDUCE				0.25 % v/v	EPOST	403	0.0	0.0	0.0	0.0	15.0	0.0	15.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2								
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2								
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2								
	INDUCE	90 %	SL		0.25 % v/v	POST2								
						Mean =		0.0	0.0	0.0	0.0	15.0	0.0	16.3
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	101	0.0	0.0	0.0	0.0	5.0	0.0	15.0
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	209	0.0	0.0	0.0	0.0	5.0	0.0	15.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	306	0.0	0.0	0.0	0.0	5.0	0.0	10.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	401	0.0	0.0	0.0	0.0	5.0	0.0	15.0
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2								
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2								
	INDUCE	90 %	SL		0.25 % v/v	POST2								
						Mean =		0.0	0.0	0.0	0.0	5.0	0.0	13.8

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Rating Date	Part Rated	Rating Type	Rating Unit/Min/Max	Crop Name	Pest Name	May-16-23 PLANT, - PHYSTU %, 0, 100 peanut	May-16-23 PLANT, - PHYBLE %, 0, 100 peanut	May-16-23 %, 0, 100 Palmer amaranth	May-16-23 %, 0, 100 Wild radish	May-23-23 PHYSTU %, 0, 100 peanut	May-23-23 PHYBLE %, 0, 100 peanut	May-23-23 PHYNEC %, 0, 100 peanut		
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	Plot	1	2	3	4	5	6	7
8	PROWLH2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	106	25.0	0.0	99.0	99.0	5.0	0.0	0.0
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	208	30.0	0.0	99.0	99.0	10.0	0.0	0.0
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	PRE	307	30.0	0.0	99.0	99.0	10.0	0.0	0.0
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	412	25.0	0.0	99.0	99.0	10.0	0.0	0.0
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2								
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	POST2								
	INDUCE	90 %		SL	0.25 % v/v	POST2								
							Mean =	27.5	0.0	99.0	99.0	8.8	0.0	0.0
9	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	103	30.0	0.0	99.0	99.0	10.0	0.0	0.0
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	211	30.0	0.0	99.0	99.0	5.0	0.0	0.0
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	PRE	312	25.0	0.0	99.0	99.0	5.0	0.0	0.0
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	404	30.0	0.0	99.0	99.0	10.0	0.0	0.0
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2								
	ANTHEM FLEX	4 LB/GAL		SE	3 fl oz/a	POST2								
	INDUCE	90 %		SL	0.25 % v/v	POST2								
							Mean =	28.8	0.0	99.0	99.0	7.5	0.0	0.0
10	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	105	30.0	0.0	99.0	99.0	5.0	0.0	0.0
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	207	20.0	0.0	99.0	99.0	5.0	0.0	0.0
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	302	30.0	0.0	99.0	99.0	10.0	0.0	0.0
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2	405	25.0	0.0	99.0	99.0	5.0	0.0	0.0
	ANTHEM FLEX	4 LB/GAL		SE	3 fl oz/a	POST2								
	INDUCE	90 %		SL	0.25 % v/v	POST2								
							Mean =	26.3	0.0	99.0	99.0	6.3	0.0	0.0
11	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	102	25.0	0.0	99.0	99.0	10.0	0.0	5.0
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	210	30.0	0.0	99.0	99.0	5.0	0.0	0.0
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	305	25.0	0.0	99.0	99.0	5.0	0.0	0.0
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2	408	30.0	0.0	99.0	99.0	10.0	0.0	0.0
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	POST2								
	INDUCE	90 %		SL	0.25 % v/v	POST2								
							Mean =	27.5	0.0	99.0	99.0	7.5	0.0	1.3
12	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	107	0.0	5.0	99.0	30.0	0.0	10.0	0.0
	BRAKE	1.2 %W/W		SL	12.0 oz/a	PRE	206	5.0	10.0	95.0	30.0	5.0	10.0	0.0
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST1	301	0.0	10.0	95.0	30.0	0.0	5.0	0.0
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST1	410	0.0	5.0	85.0	85.0	5.0	10.0	0.0
	ANTHEM FLEX	4 LB/GAL		SE	3 fl oz/a	POST1								
	COBRA	2		EC	12.5 oz/a	POST1								
	INDUCE	90 %		SL	0.25 % v/v	POST1								
							Mean =	1.3	7.5	93.5	43.8	2.5	8.8	0.0

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date							May-23-23	May-23-23	May-23-23	Jun-6-23	Jun-6-23	Jun-6-23
Part Rated										PHYSTU	PHYNEC	
Rating Type										% , 0, 100	% , 0, 100	
Rating Unit/Min/Max							% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Crop Name										peanut	peanut	
Pest Name							Palmer amaranth	Wild radish	annual grasses			Palmer amaranth
Trt No.	Treatment Name	Form Conc	Form Unit	Rate	Appl Description	Plot	8	9	10	11	12	13
1	UNTREATED CHECK				Untreated Check	112	0.0	0.0	0.0	0.0	0.0	0.0
						202	0.0	0.0	0.0	0.0	0.0	0.0
						308	0.0	0.0	0.0	0.0	0.0	0.0
						402	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	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	104	99.0	75.0	95.0	15.0	0.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	205	99.0	85.0	95.0	15.0	0.0	99.0
	INDUCE	90 %	SL	0.25 % v/v	EPOST	304	99.0	85.0	95.0	15.0	0.0	99.0
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	409	99.0	99.0	99.0	20.0	5.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
					Mean =		99.0	86.0	96.0	16.3	1.3	99.0
3	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	109	99.0	85.0	99.0	10.0	5.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	203	99.0	90.0	95.0	15.0	0.0	99.0
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	309	99.0	95.0	99.0	15.0	5.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	407	99.0	95.0	99.0	10.0	0.0	99.0
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
					Mean =		99.0	91.3	98.0	12.5	2.5	99.0
4	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	110	99.0	99.0	99.0	20.0	5.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	201	99.0	75.0	95.0	20.0	0.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	303	99.0	85.0	95.0	15.0	0.0	99.0
	INDUCE			0.25 % v/v	EPOST	411	99.0	99.0	99.0	20.0	5.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
					Mean =		99.0	89.5	97.0	18.8	2.5	99.0
5	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	108	99.0	65.0	99.0	15.0	30.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	212	99.0	95.0	99.0	15.0	30.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	311	99.0	99.0	99.0	15.0	25.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	406	99.0	99.0	99.0	15.0	30.0	99.0
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
					Mean =		99.0	89.5	99.0	15.0	28.8	99.0
6	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	111	99.0	90.0	99.0	20.0	25.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	204	99.0	85.0	99.0	20.0	25.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	310	99.0	99.0	99.0	20.0	30.0	99.0
	INDUCE			0.25 % v/v	EPOST	403	99.0	75.0	95.0	20.0	30.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
					Mean =		99.0	87.3	98.0	20.0	27.5	99.0
7	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	101	99.0	85.0	99.0	15.0	0.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	209	99.0	95.0	99.0	10.0	0.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	306	99.0	99.0	99.0	10.0	0.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	401	99.0	99.0	99.0	10.0	0.0	95.0
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
					Mean =		99.0	94.5	99.0	11.3	0.0	98.0

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date							May-23-23	May-23-23	May-23-23	Jun-6-23	Jun-6-23	Jun-6-23	
Part Rated													
Rating Type										PHYSTU	PHYNEC		
Rating Unit/Min/Max							% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	
Crop Name										peanut	peanut		
Pest Name							Palmer amaranth	Wild radish	annual grasses			Palmer amaranth	
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	Plot	8	9	10	11	12	13
8	PROWLH2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	106	99.0	95.0	99.0	15.0	0.0	99.0
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	208	99.0	99.0	99.0	15.0	0.0	99.0
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	PRE	307	99.0	99.0	99.0	10.0	0.0	99.0
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	412	99.0	90.0	95.0	10.0	0.0	99.0
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2							
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
						Mean =		99.0	95.8	98.0	12.5	0.0	99.0
9	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	103	99.0	95.0	95.0	15.0	30.0	99.0
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	211	99.0	99.0	99.0	15.0	25.0	99.0
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	PRE	312	99.0	95.0	95.0	15.0	20.0	99.0
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	404	99.0	90.0	95.0	15.0	30.0	99.0
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
						Mean =		99.0	94.8	96.0	15.0	26.3	99.0
10	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	105	99.0	75.0	99.0	15.0	30.0	99.0
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	207	99.0	85.0	95.0	15.0	25.0	99.0
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	302	99.0	50.0	95.0	15.0	30.0	99.0
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	405	99.0	99.0	99.0	15.0	25.0	99.0
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
						Mean =		99.0	77.3	97.0	15.0	27.5	99.0
11	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	102	99.0	65.0	95.0	15.0	0.0	99.0
	VALOR EZ	4	LB/GAL	SC	3 oz/a	PRE	210	99.0	99.0	99.0	20.0	0.0	99.0
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST2	305	99.0	80.0	95.0	10.0	0.0	99.0
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST2	408	99.0	99.0	99.0	10.0	0.0	99.0
	DUAL MAGNUM	7.62	LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %		SL	0.25 % v/v	POST2							
						Mean =		99.0	85.8	97.0	13.8	0.0	99.0
12	PROWL H2O	3.8	LB/GAL	CS	32 fl oz/a	PRE	107	99.0	30.0	95.0	10.0	15.0	99.0
	BRAKE	1.2 %	W/W	SL	12.0 oz/a	PRE	206	99.0	65.0	95.0	10.0	15.0	99.0
	CADRE	2	LB/GAL	SL	4 fl oz/a	POST1	301	95.0	30.0	95.0	10.0	15.0	99.0
	2,4-DB 200	2	LB/GAL	SL	16 fl oz/a	POST1	410	90.0	95.0	95.0	10.0	15.0	99.0
	ANTHEM FLEX	4	LB/GAL	SE	3 fl oz/a	POST1							
	COBRA	2		EC	12.5 oz/a	POST1							
	INDUCE	90 %		SL	0.25 % v/v	POST1							
						Mean =		95.8	55.0	95.0	10.0	15.0	99.0

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date		Jun-6-23	Jun-6-23	Jun-6-23	Jun-28-23	Jun-28-23	Jun-28-23					
Part Rated					PLANT, -							
Rating Type					PHYSTU							
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100					
Crop Name					peanut							
Pest Name		Wild radish	annual grasses	small-flower mo>		Palmer amaranth	Wild radish					
Trt Treatment	Form Form	Form	Rate	Appl								
No. Name	Conc Unit	Type	Rate Unit	Description	Plot	14	15					
						16	17					
						18	19					
1	UNTREATED CHECK			Untreated Check	112	0.0	0.0	0.0	0.0	0.0	0.0	
					202	0.0	0.0	0.0	0.0	0.0	0.0	
					308	0.0	0.0	0.0	0.0	0.0	0.0	
					402	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	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	104	99.0	99.0	99.0	15.0	99.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	205	99.0	99.0	99.0	.	99.0	99.0
	INDUCE	90 %	SL	0.25 % v/v	EPOST	304	99.0	99.0	99.0	10.0	99.0	99.0
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	409	99.0	99.0	99.0	15.0	99.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
				Mean =		99.0	99.0	99.0	13.3	99.0	99.0	
3	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	109	95.0	99.0	99.0	10.0	99.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	203	99.0	99.0	99.0	5.0	99.0	99.0
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	309	99.0	99.0	99.0	10.0	99.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	407	99.0	99.0	99.0	10.0	99.0	99.0
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
				Mean =		98.0	99.0	99.0	8.8	99.0	99.0	
4	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	110	99.0	99.0	99.0	20.0	99.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	201	99.0	99.0	99.0	10.0	99.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	303	99.0	99.0	99.0	10.0	99.0	99.0
	INDUCE			0.25 % v/v	EPOST	411	99.0	99.0	99.0	10.0	99.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
				Mean =		99.0	99.0	99.0	12.5	99.0	99.0	
5	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	108	99.0	99.0	99.0	15.0	99.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	212	99.0	99.0	99.0	15.0	99.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	311	99.0	99.0	99.0	15.0	99.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	406	99.0	99.0	99.0	15.0	99.0	99.0
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
				Mean =		99.0	99.0	99.0	15.0	99.0	99.0	
6	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	111	99.0	99.0	99.0	20.0	99.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	204	99.0	99.0	99.0	.	99.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	310	99.0	99.0	99.0	20.0	99.0	99.0
	INDUCE			0.25 % v/v	EPOST	403	95.0	99.0	99.0	15.0	99.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2							
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
				Mean =		98.0	99.0	99.0	18.3	99.0	99.0	
7	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	101	95.0	99.0	99.0	0.0	99.0	99.0
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	209	99.0	99.0	99.0	10.0	99.0	99.0
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	306	99.0	99.0	99.0	10.0	99.0	99.0
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	401	99.0	99.0	99.0	0.0	99.0	99.0
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2							
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	POST2							
	INDUCE	90 %	SL	0.25 % v/v	POST2							
				Mean =		98.0	99.0	99.0	5.0	99.0	99.0	

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date		Jun-6-23	Jun-6-23	Jun-6-23	Jun-28-23	Jun-28-23	Jun-28-23
Part Rated					PLANT, -		
Rating Type					PHYSTU		
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Crop Name					peanut		
Pest Name		Wild radish	annual grasses	small-flower mo>		Palmer amaranth	Wild radish
Trt Treatment	Form Form Form Rate Appl						
No. Name	Conc Unit Type Rate Unit Description Plot	14	15	16	17	18	19
8	PROWLH2O 3.8 LB/GAL CS 32 fl oz/a PRE 106	99.0	99.0	99.0	10.0	99.0	99.0
	VALOR EZ 4 LB/GAL SC 3 oz/a PRE 208	99.0	99.0	99.0	10.0	99.0	99.0
	DUAL MAGNUM 7.62 LB/GAL EC 16 fl oz/a PRE 307	95.0	95.0	99.0	5.0	99.0	99.0
	CADRE 2 LB/GAL SL 4 fl oz/a POST2 412	99.0	99.0	99.0	5.0	99.0	99.0
	2,4-DB 200 2 LB/GAL SL 16 fl oz/a POST2						
	DUAL MAGNUM 7.62 LB/GAL EC 16 fl oz/a POST2						
	INDUCE 90 % SL 0.25 % v/v POST2						
	Mean =	98.0	98.0	99.0	7.5	99.0	99.0
9	PROWL H2O 3.8 LB/GAL CS 32 fl oz/a PRE 103	99.0	95.0	99.0	20.0	99.0	99.0
	VALOR EZ 4 LB/GAL SC 3 oz/a PRE 211	99.0	99.0	99.0	15.0	99.0	99.0
	DUAL MAGNUM 7.62 LB/GAL EC 16 fl oz/a PRE 312	99.0	99.0	99.0	10.0	99.0	99.0
	CADRE 2 LB/GAL SL 4 fl oz/a POST2 404	95.0	99.0	99.0	.	99.0	99.0
	2,4-DB 200 2 LB/GAL SL 16 fl oz/a POST2						
	ANTHEM FLEX 4 LB/GAL SE 3 fl oz/a POST2						
	INDUCE 90 % SL 0.25 % v/v POST2						
	Mean =	98.0	98.0	99.0	15.0	99.0	99.0
10	PROWL H2O 3.8 LB/GAL CS 32 fl oz/a PRE 105	85.0	99.0	99.0	20.0	99.0	99.0
	VALOR EZ 4 LB/GAL SC 3 oz/a PRE 207	95.0	99.0	99.0	10.0	99.0	99.0
	CADRE 2 LB/GAL SL 4 fl oz/a POST2 302	95.0	95.0	99.0	10.0	99.0	99.0
	2,4-DB 200 2 LB/GAL SL 16 fl oz/a POST2 405	99.0	99.0	99.0	.	99.0	99.0
	ANTHEM FLEX 4 LB/GAL SE 3 fl oz/a POST2						
	INDUCE 90 % SL 0.25 % v/v POST2						
	Mean =	93.5	98.0	99.0	13.3	99.0	99.0
11	PROWL H2O 3.8 LB/GAL CS 32 fl oz/a PRE 102	95.0	95.0	99.0	0.0	99.0	99.0
	VALOR EZ 4 LB/GAL SC 3 oz/a PRE 210	99.0	99.0	99.0	20.0	99.0	99.0
	CADRE 2 LB/GAL SL 4 fl oz/a POST2 305	95.0	99.0	99.0	5.0	99.0	99.0
	2,4-DB 200 2 LB/GAL SL 16 fl oz/a POST2 408	99.0	99.0	99.0	10.0	99.0	99.0
	DUAL MAGNUM 7.62 LB/GAL EC 16 fl oz/a POST2						
	INDUCE 90 % SL 0.25 % v/v POST2						
	Mean =	97.0	98.0	99.0	8.8	99.0	99.0
12	PROWL H2O 3.8 LB/GAL CS 32 fl oz/a PRE 107	99.0	99.0	99.0	5.0	99.0	99.0
	BRAKE 1.2 %W/W SL 12.0 oz/a PRE 206	99.0	99.0	99.0	0.0	99.0	99.0
	CADRE 2 LB/GAL SL 4 fl oz/a POST1 301	99.0	99.0	99.0	0.0	99.0	99.0
	2,4-DB 200 2 LB/GAL SL 16 fl oz/a POST1 410	99.0	99.0	99.0	10.0	99.0	99.0
	ANTHEM FLEX 4 LB/GAL SE 3 fl oz/a POST1						
	COBRA 2 EC 12.5 oz/a POST1						
	INDUCE 90 % SL 0.25 % v/v POST1						
	Mean =	99.0	99.0	99.0	3.8	99.0	99.0

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date						Jun-28-23	Jul-24-23	Jul-24-23	Jul-24-23	Sep-25-23
Part Rated										YIELD, -
Rating Type										
Rating Unit/Min/Max						%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	lb/plot, -, -
Crop Name						annual grasses	Palmer amaranth	annual grasses	small-flower mo>	peanut
Pest Name										
Trt Treatment	Form Form	Form	Rate	Appl						
No. Name	Conc Unit	Type	Rate Unit	Description	Plot	20	21	22	23	24
1	UNTREATED CHECK			Untreated Check	112	0.0	0.0	0.0	0.0	0.00
					202	0.0	0.0	0.0	0.0	0.00
					308	0.0	0.0	0.0	0.0	0.00
					402	0.0	0.0	0.0	0.0	0.00
				Mean =		0.0	0.0	0.0	0.0	0.00
2	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	104	99.0	99.0	99.0	17.40
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	205	99.0	99.0	99.0	17.60
	INDUCE	90 %	SL	0.25 % v/v	EPOST	304	99.0	99.0	99.0	20.50
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	409	99.0	95.0	99.0	15.80
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2					
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2					
	INDUCE	90 %	SL	0.25 % v/v	POST2					
				Mean =		99.0	98.0	99.0	99.0	17.83
3	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	109	99.0	99.0	99.0	16.30
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	203	99.0	95.0	99.0	19.40
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	309	99.0	99.0	95.0	19.80
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	407	99.0	99.0	99.0	15.80
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2					
	INDUCE	90 %	SL	0.25 % v/v	POST2					
				Mean =		99.0	98.0	98.0	99.0	17.83
4	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	110	99.0	99.0	99.0	16.40
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	201	99.0	99.0	95.0	16.40
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	303	99.0	95.0	99.0	19.50
	INDUCE			0.25 % v/v	EPOST	411	99.0	99.0	99.0	14.50
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2					
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2					
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	POST2					
	INDUCE	90 %	SL	0.25 % v/v	POST2					
				Mean =		99.0	98.0	98.0	99.0	16.80
5	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	108	99.0	99.0	99.0	19.80
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	212	99.0	99.0	99.0	16.90
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	311	99.0	99.0	95.0	18.00
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	406	99.0	99.0	99.0	17.60
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2					
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	POST2					
	INDUCE	90 %	SL	0.25 % v/v	POST2					
				Mean =		99.0	99.0	98.0	99.0	18.08
6	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	EPOST	111	99.0	99.0	99.0	16.60
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	204	99.0	95.0	99.0	14.70
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	310	99.0	99.0	95.0	14.30
	INDUCE			0.25 % v/v	EPOST	403	99.0	95.0	99.0	18.40
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2					
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2					
	ANTHEM FLEX	4 LB/GAL	SE	3 fl oz/a	POST2					
	INDUCE	90 %	SL	0.25 % v/v	POST2					
				Mean =		99.0	97.0	98.0	99.0	16.00
7	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	EPOST	101	99.0	99.0	99.0	18.20
	STORM	4 LB/GAL	SL	16 fl oz/a	EPOST	209	99.0	99.0	99.0	17.10
	GRAMOXONE	2 LB/GAL	SL	12 fl oz/a	EPOST	306	99.0	99.0	99.0	17.10
	CADRE	2 LB/GAL	SL	4 fl oz/a	POST2	401	99.0	99.0	99.0	19.50
	2,4-DB 200	2 LB/GAL	SL	16 fl oz/a	POST2					
	DUAL MAGNUM	7.62 LB/GAL	EC	16 fl oz/a	POST2					
	INDUCE	90 %	SL	0.25 % v/v	POST2					
				Mean =		99.0	99.0	99.0	99.0	18.27

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date		Jun-28-23	Jul-24-23	Jul-24-23	Jul-24-23	Sep-25-23						
Part Rated						YIELD, -						
Rating Type												
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	lb/plot, -, -						
Crop Name		annual grasses	Palmer amaranth	annual grasses	small-flower mo>	peanut						
Pest Name												
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	Plot	20	21	22	23	24
8	PROWLH2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	106	99.0	99.0	99.0	99.0	14.10
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	208	99.0	99.0	99.0	99.0	19.00
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	PRE	307	99.0	99.0	99.0	99.0	18.60
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	412	99.0	99.0	99.0	99.0	18.30
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2						
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
							Mean =	99.0	99.0	99.0	99.0	17.50
9	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	103	99.0	99.0	99.0	99.0	18.30
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	211	99.0	95.0	99.0	99.0	16.80
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	PRE	312	99.0	99.0	95.0	99.0	17.90
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	404	99.0	95.0	99.0	99.0	15.80
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2						
	ANTHEM FLEX	4 LB/GAL		SE	3 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
							Mean =	99.0	97.0	98.0	99.0	17.20
10	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	105	99.0	99.0	99.0	99.0	16.50
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	207	99.0	99.0	99.0	99.0	18.90
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	302	99.0	99.0	99.0	99.0	20.40
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2	405	99.0	99.0	99.0	99.0	14.90
	ANTHEM FLEX	4 LB/GAL		SE	3 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
							Mean =	99.0	99.0	99.0	99.0	17.68
11	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	102	99.0	99.0	99.0	99.0	18.50
	VALOR EZ	4 LB/GAL		SC	3 oz/a	PRE	210	99.0	95.0	99.0	99.0	17.80
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST2	305	99.0	99.0	99.0	99.0	19.60
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST2	408	99.0	99.0	99.0	99.0	17.10
	DUAL MAGNUM	7.62 LB/GAL		EC	16 fl oz/a	POST2						
	INDUCE	90 %		SL	0.25 % v/v	POST2						
							Mean =	99.0	98.0	99.0	99.0	18.25
12	PROWL H2O	3.8 LB/GAL		CS	32 fl oz/a	PRE	107	99.0	99.0	99.0	99.0	21.80
	BRAKE	1.2 %W/W		SL	12.0 oz/a	PRE	206	99.0	99.0	99.0	99.0	26.70
	CADRE	2 LB/GAL		SL	4 fl oz/a	POST1	301	99.0	99.0	99.0	99.0	.
	2,4-DB 200	2 LB/GAL		SL	16 fl oz/a	POST1	410	99.0	95.0	95.0	99.0	17.60
	ANTHEM FLEX	4 LB/GAL		SE	3 fl oz/a	POST1						
	COBRA	2		EC	12.5 oz/a	POST1						
	INDUCE	90 %		SL	0.25 % v/v	POST1						
							Mean =	99.0	98.0	98.0	99.0	22.03

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
 Protocol ID: USA-23-007 Location: Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Blaire Colvin Sponsor Contact:
 Investigator: ERIC P. PROSTKO

Rating Date							Sep-25-23	Sep-25-23
Part Rated							YIELD, -	YIELD, -
Rating Type							lb/plot, -, -	YIELD
Rating Unit/Min/Max							peanut	peanut
Crop Name								
Pest Name								
Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Description	Plot	
							25	26
1	UNTREATED CHECK					Untreated Check	112	0
							202	0
							308	0
							402	0
						Mean =	0.0	0
2	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	104	17.1
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	205	17.2
	INDUCE	90 %	SL		0.25 % v/v	EPOST	304	20.1
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	409	15.5
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2		
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2		
	INDUCE	90 %	SL		0.25 % v/v	POST2		
						Mean =	17.5	5078
3	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	109	16.0
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	203	19.0
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	309	19.4
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	407	15.5
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2		
	INDUCE	90 %	SL		0.25 % v/v	POST2		
						Mean =	17.5	5078
4	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	110	16.1
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	201	.
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	303	19.1
	INDUCE				0.25 % v/v	EPOST	411	14.2
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2		
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2		
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2		
	INDUCE	90 %	SL		0.25 % v/v	POST2		
						Mean =	16.5	4786
5	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	108	19.4
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	212	16.6
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	311	17.6
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	406	17.2
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2		
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2		
	INDUCE	90 %	SL		0.25 % v/v	POST2		
						Mean =	17.7	5150
6	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	EPOST	111	16.3
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	204	14.4
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	310	14.0
	INDUCE				0.25 % v/v	EPOST	403	18.0
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2		
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2		
	ANTHEM FLEX	4 LB/GAL	SE		3 fl oz/a	POST2		
	INDUCE	90 %	SL		0.25 % v/v	POST2		
						Mean =	15.7	4559
7	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	EPOST	101	.
	STORM	4 LB/GAL	SL		16 fl oz/a	EPOST	209	17.8
	GRAMOXONE	2 LB/GAL	SL		12 fl oz/a	EPOST	306	16.8
	CADRE	2 LB/GAL	SL		4 fl oz/a	POST2	401	19.1
	2,4-DB 200	2 LB/GAL	SL		16 fl oz/a	POST2		
	DUAL MAGNUM	7.62 LB/GAL	EC		16 fl oz/a	POST2		
	INDUCE	90 %	SL		0.25 % v/v	POST2		
						Mean =	17.9	5204

University of Georgia

Anthem Flex weed control in Peanuts - focus on Texas panicum, annual grasses, pigweeds, small seeded broadleaves

Trial ID: USA-23-007
Protocol ID: USA-23-007 Location: Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Blaire Colvin Sponsor Contact:
Investigator: ERIC P. PROSTKO

Part Rated

PLANT = plant

YIELD = yield

Rating Type

PHYSTU = phytotoxicity - stunting

PHYBLE = phytotoxicity - bleaching

PHYNEC = phytotoxicity - necrosis /burn

YIELD = yield

Rating Unit/Min/Max

%, 0, 100 = percent

lb/plot, , = pounds per plot

lb/ac, , = pounds per acre

ARM Action Codes

T1 = [24]*0.98

TY2 = 290.72266667*[25]