

University of Georgia

SPREADING DAYFLOWER CONTROL IN PEANUT NON-REPLICATED

Trial ID: PE-112-23
 Protocol ID: Location: BERRIEN COUNTY Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: BEN REEVES Sponsor Contact:
 Investigator: ERIC PROSTKO

Reps: 1 Plots: 9 by 75 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 1 plots; minimum=0.88 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit	Appl Code	Appl Timing	Amt Product to Measure	Diluent	Rep 1
1	STRONGARM	84	WG	0.45	oz/a	A	EPOST	0.337 g/mx	1487.2 mL	101
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	EC	32.0	oz/a	B	POST	25.0 mL/mx	1462.5 mL	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST	12.5 mL/mx		
2	STRONGARM	84	WG	0.30	oz/a	A	EPOST	0.2247 g/mx	1487.3 mL	102
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	EC	32.0	oz/a	B	POST	25.0 mL/mx	1462.5 mL	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST	12.5 mL/mx		
3	BROADLOOM	4	EC	32.0	oz/a	A	EPOST	25.0 mL/mx	1462.5 mL	103
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	EC	32.0	oz/a	B	POST	25.0 mL/mx	1462.5 mL	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST	12.5 mL/mx		
4	CADRE	2	AS	4.0	oz/a	A	EPOST	3.125 mL/mx	1484.4 mL	104
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	EC	32.0	oz/a	B	POST	25.0 mL/mx	1462.5 mL	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST	12.5 mL/mx		
5	GRAMOXONE	2	SL	12.0	oz/a	A	EPOST	9.375 mL/mx	1471.9 mL	105
	BROADLOOM	4	LC	8.0	oz/a	A	EPOST	6.25 mL/mx		
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	EC	32.0	oz/a	B	POST	25.0 mL/mx	1462.5 mL	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST	12.5 mL/mx		
6	GRAMOXONE	2	SL	12.0	oz/a	A	EPOST	9.375 mL/mx	1459.4 mL	106
	ULTRA BLAZER	2	SL	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	LC	8.0	oz/a	A	EPOST	6.25 mL/mx		
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST	12.5 mL/mx		
	BROADLOOM	4	EC	32.0	oz/a	B	POST	25.0 mL/mx	1462.5 mL	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST	12.5 mL/mx		

Sort Order: Replicate 1

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Trial Comments

GROWER: BJ WARREN/TOMMY LEE

PLANTING DATE: MAY 3

CULTIVAR: GA-06G

GROWER APPLIED PROWL - PPI THEN VALOR + DUAL - PRE BUT NO RAIN UNTIL MAY 23 (20 DAP) - DRYLAND FIELD

ALAPAHA LOAMY SAND SOIL TYPE

DATE OF EPOST APPLICATION: JUNE 2

AIR: 62 F
 SOIL: 71 F
 RH: 90%
 WIND: 2 MPH
 SOIL MOISTURE: OPTIMUM
 CLOUD COVER: 5%
 DEW: YES

PEANUT STAGE:

HEIGHT: 4"
 WIDTH: 7"
 STAGE: V6

DAYFLOWER STAGE:

HEIGHT: 2-4"
 WIDTH: 3-5"
 LEAVES: COTYLEDON TO MULTIPLE LATERAL BRANCHES

DATE OF POST APPLICATION: JUNE 20 (1:13 PM)

AIR: 85 F
 SOIL: 89 F
 RH: 68%
 WIND: 4 MPH
 SOIL MOISTURE: WET
 CLOUD COVER: 75%
 DEW: NO

PEANUT STAGE:

HEIGHT: 8"
 WIDTH: 22"
 STAGE: R2

DAYFLOWER STAGE:

HEIGHT: 0.5-3"
 LEAVES: 3-4 LEAF STAGE

APPLICATION:

15 GPA
 AIXR 11002 NOZZLES
 3.5 MPH

RESULTS:

- 1) RESULTS CONFIRM THAT STRONGARM, GRAMOXONE, BROADLOOM, AND DUAL MAGNUM ARE EFFECTIVE HERBICIDES FOR DAYFLOWER CONTROL IN PEANUTS.
- 2) CADRE IS LESS EFFECTIVE THAN OTHER POST HERBICIDE OPTIONS.
- 3) EPOST + POST APPLICATIONS PROVIDED AT LEAST 90% CONTROL OF DAYFLOWER.

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Crop Name	Pest Name	Rating Date	Rating Type	Rating Unit/Min/Max	peanut	baby dayflower	peanut	peanut	spreading dayf>	spreading dayfi>	SPREADING dayfi>				
					Jun-7-23 PHYNEC %, 0, 100	Jun-7-23 PHYGEN %, 0, 100	Jun-15-23 PHYSTU %, 0, 100	Jun-15-23 PHYNEC %, 0, 100	Jun-15-23	Jun-20-23	Jun-29-23				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit	Appl Code	Appl Timing	1	2	3	4	5	6	7	
1	STRONGARM	84	WG	0.45	oz/a	A	EPOST	0.0	50.0	0.0	0.0	75.0	90.0	98.0	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST								
	BROADLOOM	4	EC	32.0	oz/a	B	POST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST								
2	STRONGARM	84	WG	0.30	oz/a	A	EPOST	0.0	50.0	0.0	0.0	75.0	90.0	98.0	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST								
	BROADLOOM	4	EC	32.0	oz/a	B	POST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST								
3	BROADLOOM	4	EC	32.0	oz/a	A	EPOST	0.0	75.0	0.0	0.0	90.0	85.0	95.0	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST								
	BROADLOOM	4	EC	32.0	oz/a	B	POST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST								
4	CADRE	2	AS	4.0	oz/a	A	EPOST	0.0	30.0	0.0	0.0	60.0	65.0	90.0	
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST								
	BROADLOOM	4	EC	32.0	oz/a	B	POST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST								
5	GRAMOXONE	2	SL	12.0	oz/a	A	EPOST	20.0	90.0	0.0	0.0	85.0	85.0	95.0	
	BROADLOOM	4	LC	8.0	oz/a	A	EPOST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST								
	BROADLOOM	4	EC	32.0	oz/a	B	POST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST								
6	GRAMOXONE	2	SL	12.0	oz/a	A	EPOST	25.0	90.0	0.0	0.0	85.0	80.0	95.0	
	ULTRA BLAZER	2	SL	16.0	oz/a	A	EPOST								
	BROADLOOM	4	LC	8.0	oz/a	A	EPOST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	A	EPOST								
	BROADLOOM	4	EC	32.0	oz/a	B	POST								
	DUAL MAGNUM	7.62	EC	16.0	oz/a	B	POST								
LSD P=.10															
Standard Deviation							
CV								
Grand Mean								7.50	64.17	0.00	0.00	78.33	82.50	95.17	

Rating Type
 PHYNEC = phytotoxicity - necrosis /burn
 PHYGEN = phytotoxicity - general / injury
 PHYSTU = phytotoxicity - stunting
Rating Unit/Min/Max
 %, 0, 100 = percent

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7 because error mean square = 0.
 ^Calculated from residual.