

University of Georgia

Millet response to Facet applied at 2 to 3 times the potential recommended rate.

Trial ID: Millet2-05

Study Dir.: Stanley Culpepper

Location: Tifton

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep		
										1	2	3
1	Facet PRE	75	DF	1.5	lb/a		A	12.14 g/mx		101	202	305
						PRE	A					
2	Facet COC EPOST	75	DF L	1.5	lb/a		B	12.14 g/mx		102	203	306
					2 pt/a		B	16.89 ml/mx				
						EPOST	B					
3	Facet COC LPOST	75	DF L	1.5	lb/a		C	12.14 g/mx		103	201	303
					2 pt/a		C	16.89 ml/mx				
						LPOST	C					
4	Facet PRE	75	DF	2	lb/a		A	16.19 g/mx		104	206	301
						PRE	A					
5	Facet COC EPOST	75	DF L	2	lb/a		B	16.19 g/mx		105	204	302
					2 pt/a		B	16.89 ml/mx				
						EPOST	B					
6	Facet COC LPOST	75	DF L	2	lb/a		C	16.19 g/mx		106	205	304
					2 pt/a		C	16.89 ml/mx				
						LPOST	C					

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Lot Code
106.265	g	Facet 75 DF	
84.451	ml	COC L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

Objective: Determine the potential for applying Facet in pearl millet.

Visual Injury Response:

1. Rates of Facet in this trial are likely 3 times that which would be recommended.
2. Facet PRE caused severe injury.
3. Facet EPOST when millet was 2 to 4 inches tall caused less than 16% stunting.
4. Facet applied LPOST when millet was 24 inches caused less than 16% stunting.

Large Crabgrass Response:

1. Facet PRE provided excellent initial control but control dropped later in the season.
2. Facet applied to crabgrass less than 4 inches tall was controlled 68 to 75% control 32 days after application.
3. Facet applied to large crabgrass provided poor control.

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Weed Code		millet	millet	millet	millet	DIGSA	DIGSA	
Crop Code		injury	injury	injury	injury	control	control	
Rating Data Type		percent	percent	percent	percent	percent	percent	
Rating Unit								
Rating Date		May-25-05	May-31-05	Jun-07-05	Jun-27-05	Jun-07-05	Jun-27-05	
Trt-Eval Interval		8 DA-A	14 DA-A	21 DA-A	41 DA-A	21 DA-A	41 DA-A	
Trt No.	Treatment Name	Rate						
		Unit	1	2	3	4	5	6
1	Facet PRE	1.5 lb/a	60	70	67	50	98	63
2	Facet COC EPOST	1.5 lb/a 2 pt/a	0	8	12	15	37	75
3	Facet COC LPOST	1.5 lb/a 2 pt/a	0	0	0	13	0	38
4	Facet PRE	2 lb/a	57	68	67	50	95	69
5	Facet COC EPOST	2 lb/a 2 pt/a	0	12	13	15	53	68
6	Facet COC LPOST	2 lb/a 2 pt/a	0	0	0	15	0	27
LSD (P=.05)			12.7	23.5	15.4	12.2	31.1	46.1
Standard Deviation			7.0	12.9	8.4	6.7	17.1	25.4
CV			35.96	48.88	32.02	25.34	36.29	44.63

Means followed by same letter do not significantly differ (P=.05, LSD)

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 Location: Tifton Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

TRIAL LOCATION

City: Tifton **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31794 **Initiation Date:** May-16-05
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____
Objective:
Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	DIGSA	large crabgrass	

Crop 1: PANMI MILLET **Variety:** Pearl Millet (Hanna cult)
Planting Date: May-16-05 **Planting Method:** seeded
Rate: 5 row ft **Depth:** 0.25 in **Perennial Age:** _____
Row Spacing: 18 inch **Spacing Within Row:** _____ **Seed Bed:** flat
Soil Temperature: 85 F **Soil Moisture:** irrigated **Emergence Date:** May-20-05

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: Research station
Tillage Type: conventional **Study Design:** FACTORIAL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 88 % OM: 1.1 Texture: sand
 % Silt: 10 pH: 5.9 Soil Name: Tifton sandy loam
 % Clay: 2 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May-17-05	May-25-05	Jun-14-05
Time of Day:	2 pm	10 am	8 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PRE	EPOST	LPOST
Applic. Placement:	on soil	overtop	overtop
Air Temp., Unit:	90 F	80 F	82 F
% Relative Humidity:	30	46	64
Wind Velocity, Unit:	1.5 mph	2 mph	2 mph
Dew Presence (Y/N):	n	n	y
Water Hardness:			
Soil Temp., Unit:	90 F	88 F	84 F
Soil Moisture:	irrigated	fair	wet
% Cloud Cover:	0	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	PANMI PRE	PANMI EPOST	PANMI LPOST
Stage Scale:	not up	2-4 lf	.
Height, Unit:	0 inch	3 inch	24 inch

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	DIGSA PRE	DIGSA EPOST	DIGSA LPOST
Stage Scale:	not up	up to 4in	up to 18"
Density, Unit:	0 ydsq	2 ydsq	3 ydsq

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APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	23	23	23
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch	18 inch
Nozzles/Row:	3	3	3
Band Width, Unit:			
Boom Length, Unit:	4.5 feet	4.5 feet	4.5 feet
Boom Height, Unit:	15 inch	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No	Treatment Application Comment