

University of Georgia

Millet response to a Facet weed control programs.

Trial ID: Millet3-05

Study Dir.: Stanley Culpepper

Location: Tifton

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 22 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .67908)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	Facet	75	DF	0.5	lb/a	PRE	A	4.048	g/mx		101	202	303	404
	Prowl H20	3.8	L	2	pt/a	POST	B	16.89	ml/mx					
2	Non-treated										102	201	302	401
3	Facet	75	DF	0.5	lb/a	PRE	A	4.048	g/mx		103	204	301	403
	Prowl H20	3.8	L	2	pt/a	POST	B	16.89	ml/mx					
	Facet	75	DF	0.5	lb/a	POST	B	4.048	g/mx					
	COC	L	1	qt/a	POST	B	16.89	ml/mx						
4	Facet	75	DF	0.5	lb/a	PRE	A	4.048	g/mx		104	203	304	402
	Facet	75	DF	0.5	lb/a	POST	B	4.048	g/mx					
	COC	L	1	qt/a	POST	B	16.89	ml/mx						

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
25.301	g	Facet 75 DF	
42.225	ml	Prowl H20 3.8 L	
42.225	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 most effective Facet herbicide program for millet.

VISUAL INJURY:

1. Herbicide programs caused less than 10% injury.
2. Facet PRE or POST at 0.5 lb is safe to the crop.
3. Prowl H20 POST to the crop is also very safe.

LARGE CRABGRASS:

1. Crabgrass is the most troublesome weed in millet.
2. All three weed control programs provided good to excellent control.
3. Late-season control tended to be a little better when the residual program contained Prowl H20.

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Weed Code			DIGSA	DIGSA		
Crop Code	millet	millet				
Rating Data Type	injury	injury	control	control		
Rating Unit	percent	percent	percent	percent		
Rating Date	Jul-15-05	Aug-04-05	Jul-15-05	Aug-04-05		
Trt-Eval Interval	10 DA-A	30 DA-A	10 DA-A	30 DA-A		
Trt No.	Treatment Name	Rate				
		Rate Unit	1	2		
			3	4		
1	Facet Prowl H20	0.5 lb/a 2 pt/a	6	1	94	98
2	Non-treated		0	0	0	0
3	Facet Prowl H20 Facet COC	0.5 lb/a 2 pt/a 0.5 lb/a 1 qt/a	6	10	93	100
4	Facet Facet COC	0.5 lb/a 0.5 lb/a 1 qt/a	9	8	94	89
LSD (P=.05)			6.6	12.9	2.7	5.4
Standard Deviation			4.1	8.1	1.7	3.4
CV			82.19	177.09	2.38	4.69

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: Extension Weed Sci.
Affiliation: Univ. of Georgia	
Postal Code: 31794	
Investigator: Stanley Culpepper	Title: Extension Weed Sci.
Affiliation: Univ. of Georgia	
Postal Code: 31794	

TRIAL LOCATION

City: Tifton	Trial Status: completed
State/Prov.: GA	Trial Reliability: excellent
Postal Code: 31794	Initiation Date: Jul-05-05
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 (hana line)
Planting Date: Jul-05-05 **Planting Method:** conventional
Rate: 5 per ft **Depth:** 0.75 " **Perennial Age:** ____
Row Spacing: 18 inch **Spacing Within Row:** 2.4 inch **Seed Bed:** flat
Soil Temperature: 89 F **Soil Moisture:** wet **Emergence Date:** Jul-09-05

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 22 FT **Reps:** 4
Site Type: Research station
Tillage Type: conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

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

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A	B
Application Date:	Jul-05-05	Jul-18-05
Time of Day:	10 am	11 am
Application Method:	broadcast	broadcast
Application Timing:	PRE	POST
Applic. Placement:	on soil	overtop
Air Temp., Unit:	86 F	88 F
% Relative Humidity:	52	64
Wind Velocity, Unit:	0 mph	2 mph
Dew Presence (Y/N):	n	y
Water Hardness:		
Soil Temp., Unit:	89 F	88 F
Soil Moisture:	wet	fair
% Cloud Cover:	100	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	PANMI PRE	PANMI POST
Stage Scale:	not up	4-6 leaf
Height, Unit:	0 inch	5 inch

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGSA PRE	DIGSA POST
Stage Scale:	not up	1 leaf
Density, Unit:	1 ydsq	0.5 inch

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APPLICATION EQUIPMENT

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

Trt No	Treatment Application Comment