

University of Georgia

Snap bean tolerance to Dual Magnum and Pursuit applied PRE.

Trial ID: Veg29-05(sb) Study Dir.: Stanley Culpepper
 Location: Ponder (5158) Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Dual Magnum	7.62 L		1 pt/a		PRE	A	8.445 ml/mx	101	202	301	402
	Pursuit	70 DG		0.54 oz/a		PRE	A	0.2733 g/mx				
2	Dual Magnum	7.62 L		1 pt/a		PRE	A	8.445 ml/mx	102	201	302	401
	Pursuit	70 DG		1.44 oz/a		PRE	A	0.7287 g/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
21.113	ml	Dual Magnum 7.62 L	
1.252	g	Pursuit 70 DG	

* '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 snap bean response to Pursuit in mixture with Dual PRE.

VISUAL RESPONSE:

1. One row was planted to Charon and the other row was planted to Bronco.
2. No injury was detected even with Pursuit at nearly 3 times the recommended use rate.

WEED RESPONSE:

1. At 45 days after treatment, Pursuit plus Dual provided excellent Florida pusley and carpetweed control.
2. At 45 days after treatment, fair to good control of Texas panicum and bristly starbur were noted.

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Weed Code	PHSVN	PHSVN	PHSVN	PANTE	RCHSC	ACHNI	MOLVE			
Crop Code										
Rating Data Type	injury	injury	injury	control	control	control	control			
Rating Unit	percent	percent	percent	percent	percent	percent	percent			
Rating Date	Apr-22-05	May-16-05	May-26-05	May-26-05	May-26-05	May-26-05	May-26-05			
Trt-Eval Interval	10 DA-A	34 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	Dual Magnum Pursuit	1 pt/a 0.54 oz/a		0	0	0	78	95	84	99
2	Dual Magnum Pursuit	1 pt/a 1.44 oz/a		0	0	0	86	96	83	99
LSD (P=.05)				0.0	0.0	0.0	12.1	1.8	21.9	0.0
Standard Deviation				0.0	0.0	0.0	5.4	0.8	9.7	0.0
CV				0.0	0.0	0.0	6.57	0.85	11.6	0.0

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

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GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** Apr-12-05
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.	PANTE	Texas panicum	
2.	RCHSC	Florida pusley	
3.	ACHNI	bristly starbur	
4.	MOLVE	carpetweed	

Crop 1: PHSVN snap bean **Variety:** Charon and Bronoco
Planting Date: Apr-12-05 **Planting Method:** seeded
Rate: 1 2in **Depth:** 0.5 in **Perennial Age:** ____
Row Spacing: 36 inch **Spacing Within Row:** 2 in **Seed Bed:** flat
Soil Temperature: 70 F **Soil Moisture:** wet **Emergence Date:** Apr-19-05

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: research station
Tillage Type: conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94	% OM: 1.1	Texture: loamy sand
% Silt: 2	pH: 6.3	Soil Name: _____
% Clay: 4	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
Application Date:	Apr-12-05
Time of Day:	7 pm
Application Method:	broadcast
Application Timing:	PRE
Applic. Placement:	on soil
Air Temp., Unit:	72 F
% Relative Humidity:	84
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	70 F
Soil Moisture:	moist
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	PHSVN PRE
Stage Scale:	not up
Height, Unit:	0 in

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WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	PANTE PRE
Stage Scale:	not up
Density, Unit:	13 ydsq
Weed 2 Code, Stage:	RCHSC PRE
Stage Scale:	not up
Density, Unit:	4 ydsq
Weed 3 Code, Stage:	ACHNI PRE
Stage Scale:	not up
Density, Unit:	5 ydsq
Weed 4 Code, Stage:	MOLVE PRE
Stage Scale:	not up
Density, Unit:	10 ydsq

APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment