

MSU Weed Science Research Program

Sensitivity of 'Zorro' black bean and 'Merlot' small red bean to Cadet

Trial ID: DB08-11 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Date Planted: 6/6/2011 Row Spacing: 30 IN
Variety: Zorro and Merlot No. of Reps: 4
Population: See comments % OM: 2.6
Soil Type: Clay Loam pH: 7.8
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Conventional
Fertilizer: None at planting.
Crop Code Common Name
1. PHSVX BEAN, DRY

Application Description

A B
Application Timing: POST LPOS
Date Treated: 7/1/2011 7/14/2011
Time Treated: 4:15 pm 10:00 am
% Cloud Cover: 5 15
Air Temp., Unit: 80 F 69 F
% Relative Humidity: 32 61
Wind Speed/Unit/Dir: 2 mph W 3 mph E
Soil Temp., Unit: 93 F 71 F
Soil/Leaf Surface M: 5 5 5 5
Soil Moist (1=w 5=d): 5 5

Crop Stage at Each Application

A B
Crop Name: PHSVX PHSVX
Height (In.): 6" 12"
Stage (L): V2 V6-V7

Application Equipment

Appl Sprayer Speed Nozzle Nozzle Nozzle Nozzle Boom
Type MPH Type Size Height Spacing Width GPA Carrier PSI
A Cub 3.8 AirMix 11003 22" 20" 100" 19 Water 28
B Cub 3.8 AirMix 11003 24" 20" 100" 19 Water 28

Comments: Zorro black bean population 106,000 seeds/acre (2" seed spacing)
Merlot small red population 79,500 seeds/acre (2.6" seed spacing)

A blanket treatment of Dual II Magnum at 1.33 pt/A + Permit at 0.67 oz/A was applied immediately after planting to all treatments.

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

PHSVX injury percent 7/4/2011	PHSVX injury percent 7/8/2011	PHSVX injury percent 7/14/2011	PHSVX injury percent 7/21/2011	PHSVX moisture percent 10/5/2011	PHSVX yield cwt/acre 10/5/2011 at 18% M
0	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	PHSVX injury percent 7/4/2011	PHSVX injury percent 7/8/2011	PHSVX injury percent 7/14/2011	PHSVX injury percent 7/21/2011	PHSVX moisture percent 10/5/2011	PHSVX yield cwt/acre 10/5/2011 at 18% M
1	'Zorro' black bean Untreated							0	0	0	0	16.2	23.5
2	'Zorro' black bean Cadet	0.91	L	0.5	fl oz/a	POST	A	23	13	9	0	16.1	22.9
2	Activator 90		L	0.25	% v/v	POST	A						
3	'Zorro' black bean Cadet	0.91	L	0.7	fl oz/a	POST	A	31	19	13	1	16.0	24.0
3	Activator 90		L	0.25	% v/v	POST	A						
4	'Zorro' black bean Cadet	0.91	L	0.9	fl oz/a	POST	A	35	21	13	1	16.1	26.3
4	Activator 90		L	0.25	% v/v	POST	A						
5	'Zorro' black bean Cadet	0.91	L	0.5	fl oz/a	POST	A	29	18	13	1	16.0	25.4
5	MSO		L	1	% v/v	POST	A						
6	'Zorro' black bean Cadet	0.91	L	0.7	fl oz/a	POST	A	34	20	13	0	16.6	25.8
6	MSO		L	1	% v/v	POST	A						
7	'Zorro' black bean Cadet	0.91	L	0.9	fl oz/a	POST	A	46	31	14	1	16.1	24.8
7	MSO		L	1	% v/v	POST	A						
8	'Zorro' black bean Reflex	2	L	1	pt/a	POST	A	2	1	0	0	17.0	24.4
8	Activator 90		L	0.25	% v/v	POST	A						
9	'Zorro' black bean Basagran	4	L	1	pt/a	POST	A	3	2	1	0	16.2	25.0
9	Herbimax (COC)		L	1	% v/v	POST	A						
10	'Zorro' black bean Basagran	4	L	1	pt/a	POST	A	3	2	0	0	15.9	22.3
10	Raptor	1	L	4	fl oz/a	POST	A						
10	Herbimax (COC)		L	1	% v/v	POST	A						
11	'Zorro' black bean Cadet	0.91	L	0.9	fl oz/a	POST	A	49	34	21	5	15.9	22.9
11	Raptor	1	L	4	fl oz/a	POST	A						
11	Herbimax (COC)		L	1	% v/v	POST	A						
12	'Zorro' black bean Cadet	0.91	L	0.7	fl oz/a	POST	A	28	18	12	10	16.4	23.5
12	Activator 90		L	0.25	% v/v	POST	A						
12	Cadet	0.91	L	0.7	fl oz/a	LPOS	B						
12	Activator 90		L	0.25	% v/v	LPOS	B						
13	'Merlot' small red bean Untreated							0	0	0	0	18.6	19.3
14	'Merlot' small red bean Cadet	0.91	L	0.5	fl oz/a	POST	A	18	15	9	0	19.0	18.8
14	Activator 90		L	0.25	% v/v	POST	A						

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Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, PHSVX injury percent, PHSVX injury percent, PHSVX injury percent, PHSVX injury percent, PHSVX moisture percent, PHSVX yield cwt/acre. Includes LSD and CV values at the bottom.

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.