

MSU Weed Science Research Program

Dry bean class tolerance to Warrant

Trial ID: DB03-12
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: Jun/07/2012 **Row Spacing:** 30 IN
Variety: See below **No. of Reps:** 4
Population: See below **% OM:** 3.4
Soil Type: Clay loam **pH:** 7.0
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow; spring soil finish
Fertilizer: Preplant: 280 lbs/A 17-8-15

Crop Code Common Name
1. GLXMA SOYBEAN

Application Description

	A	B
Application Timing:	PPI	EPOST
Date Treated:	Jun/07/2012	Jun/28/2012
Time Treated:	10:15 AM	10:35 AM
% Cloud Cover:	10	0
Air Temp., Unit:	72 F	82 F
% Relative Humidity:	46	46
Wind Speed/Unit/Dir:	4 mph NW	4 mph NW
Soil Temp., Unit:	62 F	76 F
Soil/Leaf Surface M:	3 -	5 5
Soil Moist (1=w 5=d):	3	5

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	5"
Stage (L):	-	V2-V3

Weed Stage at Each Application

	A	B
Height (In.):	-	-
Stage (L):	-	-

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	24"	20"	100"	19	water	28
B	Cub	3.8	AirMix	11003	25"	20"	100"	19	water	28

Comments: 'Merlot' small red beans 79,500 seeds/A
'Zorro' black beans 106,000 seeds/A
PPI treatments were incorporated with a soil finisher
Permit applied PRE to all treatment at 0.67 oz/A

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Crop Code	PHSVX	PHSVX	PHSVX	PHSVX	PHSVX
Rating Data Type	injury	injury	injury	injury	moisture
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jul/01/2012	Jul/05/2012	Jul/11/2012	Jul/25/2012	Sep/27/2012
Trt-Eval Interval	3 DA-B	7 DA-B	13 DA-B	27 DA-B	91 DA-B
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	PHSVX Jul/01/2012	PHSVX Jul/05/2012	PHSVX Jul/11/2012	PHSVX Jul/25/2012	PHSVX Sep/27/2012
1	'Zorro' black bean Warrant	3	L	3	pt/a	PPI	A	0	1	0	0	16.2
2	'Zorro' black bean Warrant	3	L	6	pt/a	PPI	A	0	4	0	0	15.8
3	'Zorro' black bean Dual II Magnum	7.64	L	1.33	pt/a	PPI	A	0	2	0	0	15.8
4	'Merlot' small red Warrant	3	L	3	pt/a	PPI	A	0	0	0	0	18.0
5	'Merlot' small red Warrant	3	L	6	pt/a	PPI	A	4	2	0	0	17.7
6	'Merlot' small red Dual II Magnum	7.64	L	1.33	pt/a	PPI	A	0	1	0	0	18.7
7	'Zorro' black bean Untreated							0	0	0	0	15.4
8	'Zorro' black bean Warrant	3	L	3	pt/a	EPOS	B		3	9	3	15.6
9	'Zorro' black bean Warrant	3	L	6	pt/a	EPOS	B		6	23	9	15.1
10	'Zorro' black bean Dual II Magnum	7.64	L	1.33	pt/a	EPOS	B		2	0	0	15.0
11	'Merlot' small red Untreated							0	0	0	0	17.0
12	'Merlot' small red Warrant	3	L	3	pt/a	EPOS	B		6	9	4	18.7
13	'Merlot' small red Warrant	3	L	6	pt/a	EPOS	B		8	20	7	18.0
14	'Merlot' small red Dual II Magnum	7.64	L	1.33	pt/a	EPOS	B		2	5	0	20.5
LSD (P=.05)								1.3	2.8	3.7	1.1	2.08
CV								188.56	76.16	54.72	47.56	8.58

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

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Crop Code PHSVX
 Rating Data Type yield
 Rating Unit cwt/acre
 Rating Date Sep/27/2012
 Trt-Eval Interval at 18% M
 ARM Action Codes TY1
 # Subsamples, Dec. 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	
1	'Zorro' black bean Warrant	3	L	3	pt/a	PPI	A	33.5
2	'Zorro' black bean Warrant	3	L	6	pt/a	PPI	A	34.0
3	'Zorro' black bean Dual II Magnum	7.64	L	1.33	pt/a	PPI	A	33.8
4	'Merlot' small red Warrant	3	L	3	pt/a	PPI	A	23.7
5	'Merlot' small red Warrant	3	L	6	pt/a	PPI	A	23.3
6	'Merlot' small red Dual II Magnum	7.64	L	1.33	pt/a	PPI	A	23.2
7	'Zorro' black bean Untreated							31.0
8	'Zorro' black bean Warrant	3	L	3	pt/a	EPOS	B	31.8
9	'Zorro' black bean Warrant	3	L	6	pt/a	EPOS	B	30.4
10	'Zorro' black bean Dual II Magnum	7.64	L	1.33	pt/a	EPOS	B	32.0
11	'Merlot' small red Untreated							19.2
12	'Merlot' small red Warrant	3	L	3	pt/a	EPOS	B	21.7
13	'Merlot' small red Warrant	3	L	6	pt/a	EPOS	B	21.1
14	'Merlot' small red Dual II Magnum	7.64	L	1.33	pt/a	EPOS	B	20.5
LSD (P=.05)								2.58
CV								6.66

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