

MSU Weed Science Research Program

NIA-1333 dry bean tolerance with different salts

Trial ID: DB06-12
Conducted: SVREC

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted:	Jun/07/2012	Row Spacing:	30 IN
Variety:	'Zorro' black bean	No. of Reps:	4
Population:	106,000 seeds/A	% 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 of 17-8-15

Crop Code	Common Name
1. PHSVX	BEAN, DRY

Application Description

Application Timing:	A POST
Date Treated:	Jun/28/2012
Time Treated:	12:00 PM
% Cloud Cover:	0
Air Temp., Unit:	93 F
% Relative Humidity:	46
Wind Speed/Unit/Dir:	4 mph NW
Soil Temp., Unit:	77 F
Soil/Leaf Surface M:	5 5
Soil Moist (1=w 5=d):	5

Crop Stage at Each Application

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

Application Equipment

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

Comments: Weed populations were too low in this trial to evaluate for weed control.

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Crop Code	PHSVX	PHSVX	PHSVX	PHSVX	PHSVX	PHSVX
Rating Data Type	injury	injury	injury	injury	moisture	yield
Rating Unit	percent	percent	percent	percent	percent	cwt/acre
Rating Date	Jul/01/2012	Jul/05/2012	Jul/11/2012	Jul/25/2012	Sep/25/2012	Sep/25/2012
Trt-Eval Interval	3 DA-A	7 DA-A	13 DA-A	27 DA-A	89 DA-A	at 18% M
ARM Action Codes						TY1
# Subsamples, Dec.	0	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	PHSVX injury	PHSVX injury	PHSVX injury	PHSVX injury	PHSVX moisture	PHSVX yield
1	NAI-1333 Activator 90	0.2	L	1	fl oz/a	POST	A	31	26	15	2	12.6	32.5
			L	0.25	% v/v	POST	A						
2	NAI-1333 Activator 90	0.2	L	2	fl oz/a	POST	A	39	34	21	6	12.5	32.3
			L	0.25	% v/v	POST	A						
3	NAI-1333 Activator 90	0.2	L	1	fl oz/a	POST	A	31	25	15	0	12.5	35.4
	NAI-1335 Activator 90		WG	112	g/a	POST	A						
			L	0.25	% v/v	POST	A						
4	NAI-1333 Activator 90	0.2	L	1	fl oz/a	POST	A	31	26	15	1	12.4	31.7
	NAI-1336 Activator 90		WG	112	g/a	POST	A						
			L	0.25	% v/v	POST	A						
5	NAI-1333 Activator 90	0.2	L	1	fl oz/a	POST	A	25	23	20	8	12.7	31.6
	NAI-1337 Activator 90		WG	112	g/a	POST	A						
			L	0.25	% v/v	POST	A						
6	NAI-1333 Basagran Activator 90	0.2	L	1	fl oz/a	POST	A	9	8	9	1	12.7	31.2
		4	L	32	fl oz/a	POST	A						
			L	0.25	% v/v	POST	A						
7	Raptor Basagran Activator 90	1	L	4	fl oz/a	POST	A	0	0	4	0	12.2	29.6
		4	L	12	fl oz/a	POST	A						
			L	0.25	% v/v	POST	A						
8	Untreated							0	0	0	0	12.1	32.0
LSD (P=.05)								4.8	4.0	6.5	4.9	0.85	2.39
CV								15.69	15.43	36.13	157.09	4.64	5.07

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