

MSU Weed Science Research Program

Preharvest treatments for dry edible beans

Trial ID: DB10-10 Study Dir.: Sprague, Powell
Conducted: SVREC Investigator: Christy Sprague

Date Planted: 6/16/2010 Row Spacing: 20 IN
Variety: Zorro Black No. of Reps: 4
Population: 106,000 seeds/acre % OM: 2.7
Soil Type: Clay pH: 7.8
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring soil finish
Crop Code Common Name
1. PHSVX BEAN, DRY

Application Description

A
Application Timing: PREHAR
Date Treated: 8/26/2010
Time Treated: 11:45 am
% Cloud Cover: 30
Air Temp., Unit: 67 F
% Relative Humidity: 49
Wind Speed/Unit/Dir: 7 mph N
Soil Temp., Unit: 68 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A
Crop Name: PHSVX
Height (In.): 15"-24"
Stage (L): 30%yellow

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	28"	20"	100"	19	water	28	

Comments: Dual II Magnum (1 pt/A) + Eptam (1.5 qt/A) was applied preemergence for weed control.

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

Subsamples, Dec.

PHSVX desiccation percent 8/30/2010 4 DA-A 0	PHSVX desiccation percent 9/3/2010 8 DA-A 0	PHSVX desiccation percent 9/7/2010 12 DA-A 0	PHSVX yield cwt/acre 9/9/2010 at 18% M 1
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	PHSVX desiccation percent 8/30/2010 4 DA-A 0	PHSVX desiccation percent 9/3/2010 8 DA-A 0	PHSVX desiccation percent 9/7/2010 12 DA-A 0	PHSVX yield cwt/acre 9/9/2010 at 18% M 1
1	Sharpen	2.85	L	2	fl oz/a	PREHARV	A	90	99	99	15.5
1	MSO		L	1	% v/v	PREHARV	A				
1	AMS		WG	17	lb/100 gal	PREHARV	A				
2	Untreated							60	86	97	19.7
3	Valor	51	WG	1.5	oz/a	PREHARV	A	85	97	99	18.2
3	MSO		L	1	% v/v	PREHARV	A				
4	Valor	51	WG	2	oz/a	PREHARV	A	86	99	99	18.4
4	MSO		L	1	% v/v	PREHARV	A				
5	Valor	51	WG	2	oz/a	PREHARV	A	75	98	99	19.5
5	Roundup PowerMax	4.5	SL	22	fl oz/a	PREHARV	A				
5	AMS		WG	17	lb/100 gal	PREHARV	A				
6	Gramoxone Inteon	3	L	1.2	pt/a	PREHARV	A	79	97	99	18.2
6	Activator 90		L	0.25	% v/v	PREHARV	A				
7	Gramoxone Inteon	3	L	2	pt/a	PREHARV	A	86	98	99	18.2
7	Activator 90		L	0.25	% v/v	PREHARV	A				
8	Gramoxone Inteon	3	L	1.2	pt/a	PREHARV	A	83	96	99	19.4
8	Aim	2	L	1	oz/a	PREHARV	A				
8	MSO		L	1	% v/v	PREHARV	A				
9	Aim	2	L	2	fl oz/a	PREHARV	A	78	92	99	19.2
9	MSO		L	1	% v/v	PREHARV	A				
10	Roundup PowerMax	4.5	SL	22	fl oz/a	PREHARV	A	70	96	99	20.1
10	AMS		WG	17	lb/100 gal	PREHARV	A				
11	Croptimal D (large cont.)		L	160	pt/100 gal	PREHARV	A	60	83	97	20.9
12	Croptimal D (large cont.)		L	320	pt/100 gal	PREHARV	A	60	85	97	20.5
13	Croptimal D (large cont.)		L	160	pt/100 gal	PREHARV	A	60	82	96	20.7
13	MSO		L	1	% v/v	PREHARV	A				
14	Croptimal D (small cont.)		L	160	pt/100 gal	PREHARV	A	60	82	97	18.0
LSD (P=.05)								3.5	4.7	1.0	2.93
Standard Deviation								2.4	3.3	0.7	2.05
CV								3.28	3.6	0.68	10.76

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.