

Early preplant application effects of tiafenacil (DCC-3825) on dry edible bean

Trial ID: DB03-20 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, T-15 Investigator: Christy Sprague

Planting Date: Jun-17-2020 **Row Spacing:** 30 IN
Variety: 'Zorro' black bean **No. of Reps:** 4
Population: 109000 seeds/A **% OM:** 2.8
Soil Type: L loam **pH:** 5.8
Plot Size: 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed, fall soil finished; spring soil finished (2X)

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	PHSVX	Dry bean	

Application Description

A
Application Timing: 14EPP
Date Treated: Jun-4-2020
Time Treated: 8:05 AM
% Cloud Cover: 3
Air Temp., Unit: 61 F
% Relative Humidity: 93
Wind Speed/Unit/Dir: 3 mph WSW
Soil Temp, Unit: 65 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: PHSVX
Height:
Stage:

Weed Stage at Each Application

A
Weed 1 Name:
Height:
Stage:

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	20 "	20 "	100 "	19 GPA	WATER	30 psi

Comments: 6/17/20 - Roundup PowerMax at 32 fl oz/A + AMS was applied prior to planting. 7/14/20 - Basagran at 32 fl oz/A + Select Max 12 fl oz/A + COC was applied POST.

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 Protocol ID: DB03-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Sprague, Stiles, Powell
 Sponsor Contact:

Crop Type, Code	C PHSVX	C PHSVX	C PHSVX	C PHSVX	C PHSVX	C PHSVX
Rating Date	Jun-29-2020	Jun-29-2020	Jul-15-2020	Jul-22-2020	Oct-7-2020	Oct-7-2020
Rating Type	injury	Ave. stand	injury	injury	moisture	yield
Rating Unit	percent	100' row	percent	percent	percent	cwt/A
Trt-Eval Interval	25 DA-A	25 DA-A	41 DA-A	48 DA-A	125 DA-A	125 DA-A
Number of Decimals	0	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
1	Untreated							0	239	0	0	25.1	30.1
2	Tiafenacil (DCC-3825)	2.83	L	1 fl oz/a	14 EPP	A		0	232	0	0	23.9	26.7
	MSO		L	1 % v/v	14 EPP	A							
3	Tiafenacil (DCC-3825)	2.83	L	2 fl oz/a	14 EPP	A		5	234	2	0	22.9	25.9
	MSO		L	1 % v/v	14 EPP	A							
4	Tiafenacil (DCC-3825)	2.83	L	3 fl oz/a	14 EPP	A		14	184	6	1	22.9	25.0
	MSO		L	1 % v/v	14 EPP	A							
5	Tiafenacil (DCC-3825)	2.83	L	4 fl oz/a	14 EPP	A		19	169	13	13	22.4	29.4
	MSO		L	1 % v/v	14 EPP	A							
6	Sharpen	2.85	L	2 fl oz/a	14 EPP	A		74	43	74	78	16.8	10.4
	MSO		L	1 % v/v	14 EPP	A							
7	Sharpen	2.85	L	4 fl oz/a	14 EPP	A		98	3	98	96	0.0	0.5
	MSO		L	1 % v/v	14 EPP	A							
8	Untreated 2							0	231	0	0	27.1	25.1
	LSD P=.05							4.8	21.4	8.6	4.9	10.13	6.60
	Standard Deviation							3.3	14.6	5.9	3.4	6.89	4.49
	CV							12.61	8.73	24.44	14.33	34.24	20.73