

**Carryover potential of tiafenacil (DCC-3825) to dry bean - I**

Trial ID: DB01-20 Study Dir.: Sprague, Stiles, Powell  
 Conducted: 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:** 3  
**Soil Type:** CL clay loam **pH:** 6.1  
**Plot Size:** 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall soil finished (2X)

**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	POAAN	annual bluegrass	Poa annua
2	DRBSS	Whitlow-grass	Draba sp.
Crop	Code	Common Name	
1	PHSVX	Dry bean	

**Application Description**

**A**  
**Application Timing:** FALL  
**Date Treated:** Oct-15-2019  
**Time Treated:** 11:00 AM  
**% Cloud Cover:** 30  
**Air Temp., Unit:** 51 F  
**% Relative Humidity:** 58  
**Wind Speed/Unit/Dir:** 5 mph S  
**Soil Temp, Unit:** 49 F  
**Leaf Moist/Dew Presence (Y/N):**  
**Soil Moist:** 4

**Crop Stage at Each Application**

**A**  
**Crop 1 Name:** PHSVX  
**Height:**  
**Stage:**

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:** POAAN  
**Height:**  
**Stage:**  
**Weed 2 Name:** DRBSS  
**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	24 "	20 "	100 "	19 GPA	WATER	30 psi

**Comments:**

4/27/20 - Roundup PowerMax at 44 fl oz/A + AMS was broadcast sprayed preplant. 6/17/20 - Roundup PowerMax at 32 fl oz/A + AMS was broadcast sprayed prior to planting. 7/20/20 - Basagran at 32 fl oz/A + COC was broadcast sprayed across the entire plot.

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Sponsor Contact:

Crop Type, Code	C POAAN	C DRBSS	C PHSVX	C PHSVX	C PHSVX	C PHSVX
Rating Date	Apr-27-2020	Apr-27-2020	Jun-29-2020	Jun-29-2020	Jul-15-2020	Jul-22-2020
Rating Type	control	control	injury	Ave. stand	injury	injury
Rating Unit	percent	percent	percent	100' row	percent	percent
Trt-Eval Interval	195 DA-A	195 DA-A	258 DA-A	258 DA-A	274 DA-A	281 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	C POAAN	C DRBSS	C PHSVX	C PHSVX	C PHSVX	C PHSVX
1	Untreated							0	0	0	240	0	0
2	Tiafenacil (DCC-3825)	2.83	L	0.5 fl oz/a		FALL	A	18	18	0	256	0	0
	MSO		L	1 % v/v		FALL	A						
3	Tiafenacil (DCC-3825)	2.83	L	1 fl oz/a		FALL	A	58	55	0	253	0	0
	MSO		L	1 % v/v		FALL	A						
4	Tiafenacil (DCC-3825)	2.83	L	2 fl oz/a		FALL	A	73	73	0	242	0	0
	MSO		L	1 % v/v		FALL	A						
5	Tiafenacil (DCC-3825)	2.83	L	3 fl oz/a		FALL	A	79	79	0	244	0	0
	MSO		L	1 % v/v		FALL	A						
6	Tiafenacil (DCC-3825)	2.83	L	4 fl oz/a		FALL	A	80	80	0	245	0	0
	MSO		L	1 % v/v		FALL	A						
7	Sharpen	2.85	L	2 fl oz/a		FALL	A	66	66	0	244	0	0
	MSO		L	1 % v/v		FALL	A						
8	Sharpen	2.85	L	4 fl oz/a		FALL	A	78	78	0	239	0	0
	MSO		L	1 % v/v		FALL	A						
	LSD P=.05							15.0	14.8	.	20.3	.	.
	Standard Deviation							10.2	10.1	0.0	13.8	0.0	0.0
	CV							18.17	18.02	0.0	5.63	0.0	0.0

Could not calculate LSD (% mean diff) for columns 3,5,6 because error mean square = 0.

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Sponsor Contact:

Crop Type, Code	C	PHSVX	C	PHSVX
Rating Date	Oct-7-2020	Oct-7-2020		
Rating Type	moisture	yield		
Rating Unit	percent	cwt/A		
Trt-Eval Interval	358 DA-A	358 DA-A		
Number of Decimals	1	1		

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code		
1	Untreated							27.0	21.4
2	Tiafenacil (DCC-3825)	2.83	L	0.5 fl oz/a		FALL	A	22.4	23.0
	MSO		L	1 % v/v		FALL	A		
3	Tiafenacil (DCC-3825)	2.83	L	1 fl oz/a		FALL	A	21.9	21.3
	MSO		L	1 % v/v		FALL	A		
4	Tiafenacil (DCC-3825)	2.83	L	2 fl oz/a		FALL	A	22.7	26.4
	MSO		L	1 % v/v		FALL	A		
5	Tiafenacil (DCC-3825)	2.83	L	3 fl oz/a		FALL	A	23.0	20.5
	MSO		L	1 % v/v		FALL	A		
6	Tiafenacil (DCC-3825)	2.83	L	4 fl oz/a		FALL	A	21.3	26.9
	MSO		L	1 % v/v		FALL	A		
7	Sharpen	2.85	L	2 fl oz/a		FALL	A	20.9	24.1
	MSO		L	1 % v/v		FALL	A		
8	Sharpen	2.85	L	4 fl oz/a		FALL	A	20.1	25.2
	MSO		L	1 % v/v		FALL	A		
	LSD P=.05							3.58	4.58
	Standard Deviation							2.41	3.08
	CV							10.83	13.02