

Carryover potential of tiafenacil (DCC-3825) to sugarbeet - II

Trial ID: SB03-20 Study Dir.: Sprague, Stiles, Powell
 Conducted: H6-8 Investigator: Christy Sprague

Planting Date: Apr-27-2020 **Row Spacing:** 30 IN
Variety: Crystal G675 **No. of Reps:** 4
Population: 4.375 " spacing **% OM:** 2.6
Soil Type: L loam **pH:** 6.9
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel Plow, fall soil finished; spring no-till 6/8/20 broadcast applied 200 lbs/A Super-U
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	BETVU	Sugarbeet	

Application Description

A
Application Timing: FALL
Date Treated: Dec-17-2019
Time Treated: 12:45 PM
% Cloud Cover: 60
Air Temp., Unit: 28 F
% Relative Humidity: 69
Wind Speed/Unit/Dir: 8 mph NW
Soil Temp, Unit: 33 F
Leaf Moist/Dew Presence (Y/N):
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: BETVU
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	24 "	20 "	100 "	19 GAL/AC	WATER	30 psi

Comments: 4/27/20 - Roundup PowerMax at 44 fl oz/A + AMS was applied preplant. 6/7/20 - Roundup PowerMax at 32 fl oz/A + AMS was applied POST.

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Sponsor Contact:

Crop Type, Code	C BETVU		C BETVU		C BETVU		C BETVU		C BETVU		C BETVU	
Rating Date	May-27-2020		Jun-4-2020		Jun-24-2020		Jul-24-2020		Oct-26-2020		Oct-26-2020	
Rating Type	injury		Ave. stand		injury		injury		% sugar		yield	
Rating Unit	percent		100' row		percent		percent		ton/acre		RWST	
Trt-Eval Interval	162 DA-A		170 DA-A		190 DA-A		220 DA-A		314 DA-A		314 DA-A	
Number of Decimals	0		0		0		0		1		1	
Trt Treatment	Rate	Appl	Appl									
No. Name	Rate Unit	Timing	Code									
1 Untreated				0	101	0	0	18.1	14.4	274		
2 Tiafenacil (DCC-3825)	0.5 fl oz/a	FALL	A	0	85	0	0	18.1	16.4	274		
MSO	1 % v/v	FALL	A									
3 Tiafenacil (DCC-3825)	1 fl oz/a	FALL	A	0	93	2	0	17.7	21.4	267		
MSO	1 % v/v	FALL	A									
4 Tiafenacil (DCC-3825)	2 fl oz/a	FALL	A	0	87	0	0	18.8	24.3	287		
MSO	1 % v/v	FALL	A									
5 Tiafenacil (DCC-3825)	3 fl oz/a	FALL	A	5	82	9	6	17.5	12.8	264		
MSO	1 % v/v	FALL	A									
6 Tiafenacil (DCC-3825)	4 fl oz/a	FALL	A	3	83	4	1	18.1	17.7	273		
MSO	1 % v/v	FALL	A									
7 Sharpen	2 fl oz/a	FALL	A	5	69	5	3	18.6	17.0	283		
MSO	1 % v/v	FALL	A									
8 Sharpen	4 fl oz/a	FALL	A	6	92	6	3	18.6	24.1	283		
MSO	1 % v/v	FALL	A									
LSD P=.05				6.0	19.9	9.8	5.1	0.90	5.05	15.4		
Standard Deviation				4.0	13.4	6.6	3.4	0.61	3.40	10.4		
CV				179.27	15.32	211.91	224.96	3.34	18.35	3.77		

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Crop Type, Code C BETVU
 Rating Date Oct-26-2020
 Rating Type RWSA
 Rating Unit #/acre
 Trt-Eval Interval 314 DA-A
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	
1	Untreated					3943
2	Tiafenacil (DCC-3825)	0.5 fl oz/a		FALL	A	4487
	MSO	1 % v/v		FALL	A	
3	Tiafenacil (DCC-3825)	1 fl oz/a		FALL	A	5693
	MSO	1 % v/v		FALL	A	
4	Tiafenacil (DCC-3825)	2 fl oz/a		FALL	A	6969
	MSO	1 % v/v		FALL	A	
5	Tiafenacil (DCC-3825)	3 fl oz/a		FALL	A	3441
	MSO	1 % v/v		FALL	A	
6	Tiafenacil (DCC-3825)	4 fl oz/a		FALL	A	4852
	MSO	1 % v/v		FALL	A	
7	Sharpen	2 fl oz/a		FALL	A	4845
	MSO	1 % v/v		FALL	A	
8	Sharpen	4 fl oz/a		FALL	A	6820
	MSO	1 % v/v		FALL	A	
LSD P=.05						1468.7
Standard Deviation						988.7
CV						19.27