

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

Trial ID: SB01-20 Study Dir.: Sprague, Stiles, Powell  
 Conducted: T-15 Investigator: Christy Sprague

**Planting Date:** Apr-27-2020 **Row Spacing:** 30 IN  
**Variety:** Crystal G675 **No. of Reps:** 4  
**Population:** 4.375 " spacing **% OM:** 3  
**Soil Type:** CL clay loam **pH:** 6.1  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall soil finish (2X); spring no-till 6/8/20 - 200 lbs/A Super-U was broadcasted across the entire plot.  
**Fertilizer:**

**Crop and Weed Description**

<b>Weed</b>	<b>Code</b>	<b>Common Name</b>	<b>Scientific Name</b>
1			
<b>Crop</b>	<b>Code</b>	<b>Common Name</b>	
1	BETVU	Sugarbeet	

**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:** 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. 6/1/20 - Roundup PowerMax at 32 fl oz/A + AMS was applied POST. 6/1/20 - Replications 2 & 4 were damaged due to flooding and replanted with Crystal G674 at 4.375" spacing. These replications were dropped due to poor stand establishment.

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Trial ID: SB01-20

Location: T-15

Trial Year: 2019

Protocol ID: SB01-20 Investigator (Creator): Christy Sprague

Project ID: Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Crop Type, Code	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	Oct-26-2020	Oct-26-2020	Oct-26-2020	Oct-26-2020
Rating Type	injury	Ave. stand	injury	injury	% sugar	yield	RWSA			
Rating Unit	percent	100' row	percent	percent		ton/acre	# / acre			
Trt-Eval Interval	225 DA-A	233 DA-A	253 DA-A	283 DA-A	377 DA-A	377 DA-A	377 DA-A	377 DA-A	377 DA-A	377 DA-A
Number of Decimals	0	0	0	0	1	1	1	1	1	0
Trt Treatment	Rate	Appl	Appl							
No. Name	Rate Unit	Timing	Code							
1 Untreated				0	100	0	0	17.5	25.0	6560
2 Tiafenacil (DCC-3825)	0.5 fl oz/a	FALL	A	0	80	0	0	17.2	22.3	5769
MSO	1 % v/v	FALL	A							
3 Tiafenacil (DCC-3825)	1 fl oz/a	FALL	A	13	64	15	10	18.3	25.4	7032
MSO	1 % v/v	FALL	A							
4 Tiafenacil (DCC-3825)	2 fl oz/a	FALL	A	23	60	30	23	17.2	21.4	5473
MSO	1 % v/v	FALL	A							
5 Tiafenacil (DCC-3825)	3 fl oz/a	FALL	A	25	82	30	10	17.6	22.3	5896
MSO	1 % v/v	FALL	A							
6 Tiafenacil (DCC-3825)	4 fl oz/a	FALL	A	63	33	65	65	16.9	12.0	3033
MSO	1 % v/v	FALL	A							
7 Sharpen	2 fl oz/a	FALL	A	55	52	50	35	16.9	20.0	5022
MSO	1 % v/v	FALL	A							
8 Sharpen	4 fl oz/a	FALL	A	65	37	75	65	16.9	13.3	3386
MSO	1 % v/v	FALL	A							
LSD P=.05				29.1	30.1	27.9	17.0	1.06	10.74	2899.8
Standard Deviation				12.3	12.7	11.8	7.2	0.45	4.54	1226.3
CV				40.61	20.02	35.63	27.68	2.58	22.48	23.26