

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB02-21 Study Dir.: Sprague, Powell, Stiles
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: 4-6-21 **Row Spacing:** 30 IN
Variety: Crystal G675RR **No. of Reps:** 4
Population: 4.375 " spacing **% OM:** 2.6
Soil Type: CL clay loam **pH:** 7.9
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; Spring multi-purpose tillage tool followed by a soil finisher
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	CHEAL	common lambsquarters	Chenopodium album
Crop	Code	Common Name	
1	BETVU	Sugarbeet	

Application Description

	A	B	C
Application Timing:	2-leaf	6-leaf	10-12 leaf
Date Treated:	5-7-21	5-27-21	6-9-21
Time Treated:	10:00 AM	9:30 AM	10:00 AM
% Cloud Cover:	100	50	40
Air Temp., Unit:	39 F	52 F	82 F
% Relative Humidity:	20	60	66
Wind Speed/Unit/Dir:	2 MPH SW	3 MPH E	2 MPH NE
Soil Temp, Unit:	45 F	64 F	80 F
Leaf Moist/Dew Presence (Y/N):	N	N	N
Soil Moist:	3	5	3

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	BETVU	BETVU	BETVU
Height:	1-1 " (1)	4-6 " (5)	8-10 " (9)
Stage:	2L-2L (2L)	6L-8L (7L)	7L-9L (8L)

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	CHEAL	CHEAL	CHEAL
Height:	0.5-1 " (0.75)	4-6 " (5)	10-20 " (15)
Stage:	2L-2L (2L)	4L-6L (5L)	10L-30L (20L)

Weed Density

Date:	1 5-27-21
Weed Name:	CHEAL
Density:	4 FT2

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	21.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	27.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	28.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments:

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Location: SVREC

Investigator (Creator): Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL		CHEAL		CHEAL		CHEAL		CHEAL	
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU
Rating Date	6-3-21	6-3-21	6-10-21	6-10-21	6-16-21	6-16-21	6-28-21	6-28-21	7-7-21	7-7-21
Rating Type	injury	control	injury	control	injury	control	injury	control	injury	control
Rating Unit	%	%	%	%	%	%	%	%	%	%
Trt-Eval Interval	7 DA-B	7 DA-B	14 DA-B	14 DA-B	7 DA-C	7 DA-C	19 DA-C	19 DA-C	28 DA-C	28 DA-C

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	59	88	44	90	21	100	3	100	2	100
16	Stinger	2 fl oz/a		A										
16	Roundup PowerMax	32 fl oz/a		A										
16	AMS	17 lb/100 gal		A										
16	Stinger	4 fl oz/a		B										
16	Ultra Blazer	16 fl oz/a		B										
16	Mocassin II Plus	1.33 pt/a		B										
16	Roundup PowerMax	22 fl oz/a		B										
16	AMS	17 lb/100 gal		B										
16	Roundup PowerMax	22 fl oz/a		C										
16	AMS	17 lb/100 gal		C										
LSD P=.05					7.1	9.3	6.4	10.2	7.3	3.5	4.7	1.4	3.5	0.9
Standard Deviation					5.0	6.6	4.5	7.2	5.1	2.5	3.3	1.0	2.5	0.6
CV					15.75	8.67	24.43	9.22	36.94	2.69	71.85	1.02	65.81	0.67

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Pest Code	CHEAL							
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU
Rating Date	8-24-21	8-24-21	9-1-21	9-1-21	9-1-21	9-1-21	9-1-21	9-1-21
Rating Type	injury	control	stand count	sugar	RWST	yield	RWSA	
Rating Unit	%	%	100' ROW	%	lb/ton	ton/A	lb/A	
Trt-Eval Interval	76 DA-C	76 DA-C	84 DA-C	84 DA-C	84 DA-C	84 DA-C	84 DA-C	84 DA-C

Trt No.	Treatment Name	Rate	Unit	Appl Code							
16	Stinger	2 fl oz/a		A	0	100	382	16	237	27.2	6449
16	Roundup PowerMax	32 fl oz/a		A							
16	AMS	17 lb/100 gal		A							
16	Stinger	4 fl oz/a		B							
16	Ultra Blazer	16 fl oz/a		B							
16	Moccasin II Plus	1.33 pt/a		B							
16	Roundup PowerMax	22 fl oz/a		B							
16	AMS	17 lb/100 gal		B							
16	Roundup PowerMax	22 fl oz/a		C							
16	AMS	17 lb/100 gal		C							
LSD P=.05					.	2.0	67.7	0.9	15.2	5.93	1431.9
Standard Deviation					0.0	1.4	47.5	0.6	10.7	4.16	1005.4
CV					0.0	1.49	13.31	3.94	4.65	13.75	14.47