

Sugarbeet safety to high load Warrant applications

Trial ID: SB03-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: 4-6-21 **Row Spacing:** 30 IN
Variety: Crystal G675 **No. of Reps:** 4
Population: 47800 seeds/A **% 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 joker; Spring 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

Application Timing: A
 4 leaf
Date Treated: 5-19-21
Time Treated: 9:00 AM
% Cloud Cover: 80
Air Temp., Unit: 71 F
% Relative Humidity: 63
Wind Speed/Unit/Dir: 16 MPH S
Soil Temp, Unit: 66 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

Crop 1 Name: A
 BETVU
Height: 2"
Stage: 4L

Weed Stage at Each Application

Weed 1 Name: A
 CHEAL
Height: 0.5-2" (1)
Stage: 6L-8L (7L)

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	24.0"	20.0"	100.0"	19 GAL/AC	WATER	30 PSI

Comments: Roundup PowerMax at 32 fl oz/A + AMS at 17 lbs/100 gal was applied to the entire study on May 7, 2021 when sugarbeet was at the 2-leaf stage.

Sugarbeet safety to high load warrant applications

Location: SVREC

Investigator (Creator): Christy Sprague

Study Director: Sprague, Stiles, Powell

Pest Code		CHEAL		CHEAL		CHEAL	
Crop Type, Code		C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU
Rating Date		5-26-21	5-26-21	6-2-21	6-2-21	6-16-21	6-16-21
Rating Type		injury	control	injury	control	injury	control
Rating Unit		%	%	%	%	%	%
Trt-Eval Interval		7 DA-A	7 DA-A	14 DA-A	14 DA-B	28 DA-A	28 DA-B
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
1	Untreated		0 68	0 60	1 0		
2	Warrant	48 fl oz/a	8 74	6 73	2 59		
3	Warrant	64 fl oz/a	15 71	14 70	5 55		
4	MON 301668	30 fl oz/a	7 77	7 68	2 55		
5	MON 301668	42 fl oz/a	16 72	12 69	5 33		
6	MON 301668	42 fl oz/a	15 98	14 100	6 96		
6	Roundup PowerMax 3	30 fl oz/a					
6	AMSOL	5 % v/v					
7	Stinger	8 fl oz/a	34 100	24 100	9 100		
7	MON 301668	42 fl oz/a					
7	Roundup PowerMax 3	30 fl oz/a					
7	AMSOL	5 % v/v					
8	Ethofumesate	12 fl oz/a	12 99	7 100	4 100		
8	MON 301668	42 fl oz/a					
8	Roundup PowerMax 3	30 fl oz/a					
8	AMSOL	5 % v/v					
9	SelectMax	9 fl oz/a	15 98	13 100	6 97		
9	MON 301668	42 fl oz/a					
9	Roundup PowerMax 3	30 fl oz/a					
9	AMSOL	5 % v/v					
10	Roundup PowerMax 3	30 fl oz/a	2 100	0 100	3 97		
10	AMSOL	5 % v/v					
11	Dual II Magnum	1.33 pt/a	6 96	3 100	4 100		
11	Roundup PowerMax 3	30 fl oz/a					
11	AMSOL	5 % v/v					
12	Outlook	16 fl oz/a	0 99	1 100	3 100		
12	Roundup PowerMax 3	30 fl oz/a					
12	AMSOL	5 % v/v					
LSD	P=.05		4.8 7.6	5.5 8.9	3.8 13.1		
	Standard Deviation		3.3 5.3	3.8 6.2	2.6 9.1		
	CV		31.16 6.01	46.12 7.17	64.82 12.25		