

Herbicide-resistant waterhemp control with Ultra Blazer in sugarbeet

Trial ID: SB07-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Isabella Co. Investigator: Christy Sprague

Planting Date: Jul-8-2019 **Row Spacing:** 30 IN
Variety: Crysta G675 **No. of Reps:** 4
Population: 4.25 " Spacing **% OM:** 2.5
Soil Type: SL sandy loam **pH:** 7.1
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Spring disked and cultimulched

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	AMATU	waterhemp, tall	Amaranthus tuberculatus
Crop	Code	Common Name	
1	BETVU	Sugarbeet	

Application Description

A
Application Timing: 2" weeds
Date Treated: Jul-26-2019
Time Treated: 2:35 PM
% Cloud Cover: 70
Air Temp., Unit: 83 F
% Relative Humidity: 44
Wind Speed/Unit/Dir: 5 mph NW
Soil Temp, Unit: 76 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist: 4

Crop Stage at Each Application

A
Crop 1 Name: BETVU
Height: 1.5 "
Stage: 2L

Weed Stage at Each Application

A
Weed 1 Name: AMATU
Height: 2 "
Stage: 6L

Weed Density

1
Date: Jul-26-2019
Weed Name: AMATU
Density: 23 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	22 "	20 "	120 "	19 GAL/AC	WATER	30 psi

Comments: Sugarbeet injury was not evaluated in this trial due to variable emergence. The waterhemp population at this location is Group 2 (ALS) and Group 9 (glyphosate) resistant.

Herbicide-resistant waterhemp control with Ultra Blazer in sugarbeet

Trial ID: SB07-19

Location: Isabella Co.

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMATU	AMATU	AMATU
Crop Type, Code			
Rating Date	Aug-2-2019	Aug-8-2019	Aug-16-2019
Rating Type	control	control	control
Rating Unit	percent	percent	percent
Trt-Eval Interval	7 DA-A	13 DA-A	21 DA-A
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code			
1	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A	20	0	0
1	AMS		WG	17 lb/100 gal		2" weeds	A			
2	Ultra Blazer	2	L	16 fl oz/a		2" weeds	A	80	79	66
2	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
2	AMS		WG	17 lb/100 gal		2" weeds	A			
3	Ultra Blazer	2	L	24 fl oz/a		2" weeds	A	87	72	64
3	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
3	AMS		WG	17 lb/100 gal		2" weeds	A			
4	Ultra Blazer	2	L	16 fl oz/a		2" weeds	A	90	75	70
4	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
4	Destiny HC		L	1.5 pt/a		2" weeds	A			
4	AMS		WG	17 lb/100 gal		2" weeds	A			
5	Betenex	2.7	L	1.5 pt/a		2" weeds	A	50	23	23
5	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
5	AMS		WG	17 lb/100 gal		2" weeds	A			
6	Ethofumesate	4	L	2 pt/a		2" weeds	A	54	50	61
6	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
6	Destiny HC		L	1.5 pt/a		2" weeds	A			
6	AMS		WG	17 lb/100 gal		2" weeds	A			
7	Ultra Blazer	2	L	16 fl oz/a		2" weeds	A	86	70	65
7	Stinger	3	L	4 fl oz/a		2" weeds	A			
7	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
7	AMS		WG	17 lb/100 gal		2" weeds	A			
8	Ultra Blazer	2	L	16 fl oz/a		2" weeds	A	86	76	69
8	Ethofumesate	4	L	12 fl oz/a		2" weeds	A			
8	Roundup PowerMax	4.5	SL	32 fl oz/a		2" weeds	A			
8	AMS		WG	17 lb/100 gal		2" weeds	A			
LSD	P=.05							18.8	8.3	8.7
Standard Deviation								12.8	5.6	5.9
CV								18.44	10.17	11.37