

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18 Study Dir.: Sprague, Powell, Stiles
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: Apr-23-2018 **Row Spacing:** 30 IN
Variety: Crystal G515 **No. of Reps:** 4
Population: 4.375 " spacing **% OM:** 2.3
Soil Type: CL clay loam **pH:** 8.0
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall moldboard; early spring field cultivate; planted stale seedbed
Fertilizer: 140 lb N/A as urea + ESN

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	CHEAL	lambsquarters, common	Chenopodium album
2	POLCO	buckwheat, wild	Polygonum convolvulus
Crop	Code	Common Name	
1	BETVU	Sugarbeet	

Application Description

	A	B	C
Application Timing:	2 leaf	4-6 leaf	12 leaf
Date Treated:	May-23-2018	Jun-5-2018	Jun-19-2018
Time Treated:	2:30 PM	11:00 AM	1:00 PM
% Cloud Cover:	0	80	95
Air Temp., Unit:	75 F	52 F	75 F
% Relative Humidity:	36	69	59
Wind Speed/Unit/Dir:	1 mph W	7 mph NW	1 mph W
Soil Temp, Unit:	68 F	64 F	73 F
Leaf Moist/Dew Presence (Y/N):	3	5	5
Soil Moist:	3	5	4

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	BETVU	BETVU	BETVU
Height:	1 "	4 "	8 "
Stage:	2L	6L	8-14L

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	CHEAL	CHEAL	CHEAL
Height:	1 "	1-2 " (1.5)	1 "
Stage:	2-4L	4-6L	2-6L
Weed 2 Name:	POLCO	POLCO	POLCO
Height:	3-4 " (3.5)	3-4 " (3.5)	2-4 " (3)
Stage:	2-4L	2-6L	4-8L

Weed Density

	1	2
Date:	Jun-19-2018	Jun-19-2018
Weed Name:	CHEAL	POLCO
Density:	6 FT ²	6 FT ²

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	23 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		CHEAL	POLCO		CHEAL
Crop Code		BETVU		BETVU	
Rating Date		May-30-2018	May-30-2018	May-30-2018	Jun-5-2018
Rating Type		injury	control	control	injury
Rating Unit		percent	percent	percent	percent
Trt-Eval Interval		7 DA-A	7 DA-A	7 DA-A	13 DA-A
Number of Decimals		0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Roundup PowerMax	4.5	SL	22 fl oz/a		A	0	83	55	0	100
1	AMS		WG	17 lb/100 gal		A					
1	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
1	AMS		WG	17 lb/100 gal		B					
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
1	AMS		WG	17 lb/100 gal		C					
2	Ultra Blazer	2	L	8 fl oz/a		A	39	95	99	13	100
2	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
2	AMS		WG	17 lb/100 gal		A					
2	Ultra Blazer	2	L	8 fl oz/a		B					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
2	AMS		WG	17 lb/100 gal		B					
2	Ultra Blazer	2	L	8 fl oz/a		C					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
2	AMS		WG	17 lb/100 gal		C					
3	Ultra Blazer	2	L	16 fl oz/a		A	39	93	100	19	99
3	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
3	AMS		WG	17 lb/100 gal		A					
3	Ultra Blazer	2	L	16 fl oz/a		B					
3	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
3	AMS		WG	17 lb/100 gal		B					
3	Ultra Blazer	2	L	16 fl oz/a		C					
3	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
3	AMS		WG	17 lb/100 gal		C					
4	Untreated						0	0	0	0	0
5	Ultra Blazer	2	L	16 fl oz/a		A	40	98	100	18	99
5	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
5	AMS		WG	17 lb/100 gal		A					
5	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
5	AMS		WG	17 lb/100 gal		B					
5	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
5	AMS		WG	17 lb/100 gal		C					
6	Ultra Blazer	2	L	24 fl oz/a		A	39	99	100	15	98
6	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
6	AMS		WG	17 lb/100 gal		A					
6	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
6	AMS		WG	17 lb/100 gal		B					
6	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
6	AMS		WG	17 lb/100 gal		C					

Missing data estimates are included in columns: Average=20,22,23

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	CHEAL	POLCO	CHEAL	
Pest Code	BETVU		BETVU	
Crop Code				
Rating Date	May-30-2018	May-30-2018	May-30-2018	Jun-5-2018
Rating Type	injury	control	control	injury
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	13 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	A	0	82	61	0	100
7	AMS		WG	17	lb/100 gal	A					
7	Ultra Blazer	2	L	24	fl oz/a	B					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
7	AMS		WG	17	lb/100 gal	B					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
7	AMS		WG	17	lb/100 gal	C					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	A	0	85	63	0	100
8	AMS		WG	17	lb/100 gal	A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
8	AMS		WG	17	lb/100 gal	B					
8	Ultra Blazer	2	L	24	fl oz/a	C					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
8	AMS		WG	17	lb/100 gal	C					
9	Ultra Blazer	2	L	24	fl oz/a	A	51	97	99	15	100
9	Ethotron	4	L	12	fl oz/a	A					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
9	AMS		WG	17	lb/100 gal	A					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
9	AMS		WG	17	lb/100 gal	B					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
9	AMS		WG	17	lb/100 gal	C					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	A	6	96	68	3	100
10	AMS		WG	17	lb/100 gal	A					
10	Ultra Blazer	2	L	24	fl oz/a	B					
10	Ethotron	4	L	12	fl oz/a	B					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
10	AMS		WG	17	lb/100 gal	B					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
10	AMS		WG	17	lb/100 gal	C					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	A	4	100	69	1	100
11	AMS		WG	17	lb/100 gal	A					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
11	AMS		WG	17	lb/100 gal	B					
11	Ultra Blazer	2	L	24	fl oz/a	C					
11	Ethotron	4	L	12	fl oz/a	C					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
11	AMS		WG	17	lb/100 gal	C					

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Pest Code		CHEAL	POLCO		CHEAL
Crop Code	BETVU			BETVU	
Rating Date	May-30-2018	May-30-2018	May-30-2018	Jun-5-2018	Jun-5-2018
Rating Type	injury	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	13 DA-A	13 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
12	Ethotron	4	L	12	fl oz/a	A	2	100	65	1	100
12	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
12	AMS		WG	17	lb/100 gal	A					
12	Ethotron	4	L	12	fl oz/a	B					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
12	AMS		WG	17	lb/100 gal	B					
12	Ethotron	4	L	12	fl oz/a	C					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
12	AMS		WG	17	lb/100 gal	C					
	LSD P=.05			6.5			6.5	6.7	7.3	6.8	2.3
	Standard Deviation			4.5			4.5	4.7	5.1	4.8	1.6
	CV			24.58			24.58	5.47	6.93	67.9	1.73

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Pest Code	POLCO		CHEAL	POLCO	
Crop Code		BETVU			BETVU
Rating Date	Jun-5-2018	Jun-19-2018	Jun-19-2018	Jun-19-2018	Jun-26-2018
Rating Type	control	injury	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-A	14 DA-B	14 DA-B	14 DA-B	7 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Roundup PowerMax	4.5	SL	22 fl oz/a		A	79	0	100	84	0
1	AMS		WG	17 lb/100 gal		A					
1	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
1	AMS		WG	17 lb/100 gal		B					
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
1	AMS		WG	17 lb/100 gal		C					
2	Ultra Blazer	2	L	8 fl oz/a		A	90	29	98	99	25
2	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
2	AMS		WG	17 lb/100 gal		A					
2	Ultra Blazer	2	L	8 fl oz/a		B					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
2	AMS		WG	17 lb/100 gal		B					
2	Ultra Blazer	2	L	8 fl oz/a		C					
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
2	AMS		WG	17 lb/100 gal		C					
3	Ultra Blazer	2	L	16 fl oz/a		A	89	28	99	99	28
3	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
3	AMS		WG	17 lb/100 gal		A					
3	Ultra Blazer	2	L	16 fl oz/a		B					
3	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
3	AMS		WG	17 lb/100 gal		B					
3	Ultra Blazer	2	L	16 fl oz/a		C					
3	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
3	AMS		WG	17 lb/100 gal		C					
4	Untreated						0	0	0	0	0
5	Ultra Blazer	2	L	16 fl oz/a		A	96	3	100	100	0
5	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
5	AMS		WG	17 lb/100 gal		A					
5	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
5	AMS		WG	17 lb/100 gal		B					
5	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
5	AMS		WG	17 lb/100 gal		C					
6	Ultra Blazer	2	L	24 fl oz/a		A	94	4	100	100	1
6	Roundup PowerMax	4.5	SL	22 fl oz/a		A					
6	AMS		WG	17 lb/100 gal		A					
6	Roundup PowerMax	4.5	SL	22 fl oz/a		B					
6	AMS		WG	17 lb/100 gal		B					
6	Roundup PowerMax	4.5	SL	22 fl oz/a		C					
6	AMS		WG	17 lb/100 gal		C					

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Pest Code	POLCO		CHEAL	POLCO	
Crop Code		BETVU			BETVU
Rating Date	Jun-5-2018	Jun-19-2018	Jun-19-2018	Jun-19-2018	Jun-26-2018
Rating Type	control	injury	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-A	14 DA-B	14 DA-B	14 DA-B	7 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code					
7	Roundup PowerMax	4.5	SL	22 fl oz/a	A	75	25	100	91	9
7	AMS		WG	17 lb/100 gal	A					
7	Ultra Blazer	2	L	24 fl oz/a	B					
7	Roundup PowerMax	4.5	SL	22 fl oz/a	B					
7	AMS		WG	17 lb/100 gal	B					
7	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
7	AMS		WG	17 lb/100 gal	C					
8	Roundup PowerMax	4.5	SL	22 fl oz/a	A	71	0	100	91	20
8	AMS		WG	17 lb/100 gal	A					
8	Roundup PowerMax	4.5	SL	22 fl oz/a	B					
8	AMS		WG	17 lb/100 gal	B					
8	Ultra Blazer	2	L	24 fl oz/a	C					
8	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
8	AMS		WG	17 lb/100 gal	C					
9	Ultra Blazer	2	L	24 fl oz/a	A	94	5	100	100	2
9	Ethotron	4	L	12 fl oz/a	A					
9	Roundup PowerMax	4.5	SL	22 fl oz/a	A					
9	AMS		WG	17 lb/100 gal	A					
9	Roundup PowerMax	4.5	SL	22 fl oz/a	B					
9	AMS		WG	17 lb/100 gal	B					
9	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
9	AMS		WG	17 lb/100 gal	C					
10	Roundup PowerMax	4.5	SL	22 fl oz/a	A	79	28	100	92	13
10	AMS		WG	17 lb/100 gal	A					
10	Ultra Blazer	2	L	24 fl oz/a	B					
10	Ethotron	4	L	12 fl oz/a	B					
10	Roundup PowerMax	4.5	SL	22 fl oz/a	B					
10	AMS		WG	17 lb/100 gal	B					
10	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
10	AMS		WG	17 lb/100 gal	C					
11	Roundup PowerMax	4.5	SL	22 fl oz/a	A	89	0	100	94	24
11	AMS		WG	17 lb/100 gal	A					
11	Roundup PowerMax	4.5	SL	22 fl oz/a	B					
11	AMS		WG	17 lb/100 gal	B					
11	Ultra Blazer	2	L	24 fl oz/a	C					
11	Ethotron	4	L	12 fl oz/a	C					
11	Roundup PowerMax	4.5	SL	22 fl oz/a	C					
11	AMS		WG	17 lb/100 gal	C					

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Pest Code	POLCO		CHEAL	POLCO	
Crop Code		BETVU			BETVU
Rating Date	Jun-5-2018	Jun-19-2018	Jun-19-2018	Jun-19-2018	Jun-26-2018
Rating Type	control	injury	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-A	14 DA-B	14 DA-B	14 DA-B	7 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
12	Ethotron	4	L	12	fl oz/a	A	83	0	100	94	4
12	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
12	AMS		WG	17	lb/100 gal	A					
12	Ethotron	4	L	12	fl oz/a	B					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
12	AMS		WG	17	lb/100 gal	B					
12	Ethotron	4	L	12	fl oz/a	C					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
12	AMS		WG	17	lb/100 gal	C					
	LSD P=.05						12.9	3.9	2.2	6.4	5.9
	Standard Deviation						9.0	2.7	1.5	4.4	4.1
	CV						11.48	26.82	1.66	5.08	39.14

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Pest Code	CHEAL	POLCO	BETVU	CHEAL	POLCO	BETVU
Crop Code	Jun-26-2018	Jun-26-2018	Jul-3-2018	Jul-3-2018	Jul-3-2018	Jul-10-2018
Rating Date	control	control	injury	control	control	injury
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 DA-C	21 DA-C
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	CHEAL	POLCO	BETVU	CHEAL	POLCO	BETVU
1	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	89	0	100	92	0
1	AMS		WG	17	lb/100 gal	A						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
1	AMS		WG	17	lb/100 gal	B						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
1	AMS		WG	17	lb/100 gal	C						
2	Ultra Blazer	2	L	8	fl oz/a	A	100	98	27	100	99	20
2	Roundup PowerMax	4.5	SL	22	fl oz/a	A						
2	AMS		WG	17	lb/100 gal	A						
2	Ultra Blazer	2	L	8	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
2	AMS		WG	17	lb/100 gal	B						
2	Ultra Blazer	2	L	8	fl oz/a	C						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
2	AMS		WG	17	lb/100 gal	C						
3	Ultra Blazer	2	L	16	fl oz/a	A	100	99	28	100	99	24
3	Roundup PowerMax	4.5	SL	22	fl oz/a	A						
3	AMS		WG	17	lb/100 gal	A						
3	Ultra Blazer	2	L	16	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
3	AMS		WG	17	lb/100 gal	B						
3	Ultra Blazer	2	L	16	fl oz/a	C						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
3	AMS		WG	17	lb/100 gal	C						
4	Untreated						0	0	0	0	0	0
5	Ultra Blazer	2	L	16	fl oz/a	A	100	100	0	99	100	0
5	Roundup PowerMax	4.5	SL	22	fl oz/a	A						
5	AMS		WG	17	lb/100 gal	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
5	AMS		WG	17	lb/100 gal	B						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
5	AMS		WG	17	lb/100 gal	C						
6	Ultra Blazer	2	L	24	fl oz/a	A	100	100	1	100	100	0
6	Roundup PowerMax	4.5	SL	22	fl oz/a	A						
6	AMS		WG	17	lb/100 gal	A						
6	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
6	AMS		WG	17	lb/100 gal	B						
6	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
6	AMS		WG	17	lb/100 gal	C						

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	CHEAL	POLCO	BETVU	CHEAL	POLCO	BETVU
Pest Code						
Crop Code						
Rating Date	Jun-26-2018	Jun-26-2018	Jul-3-2018	Jul-3-2018	Jul-3-2018	Jul-10-2018
Rating Type	control	control	injury	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 DA-C	21 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	88	3	100	93	2
7	AMS		WG	17	lb/100 gal	A						
7	Ultra Blazer	2	L	24	fl oz/a	B						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
7	AMS		WG	17	lb/100 gal	B						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
7	AMS		WG	17	lb/100 gal	C						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	93	21	100	97	21
8	AMS		WG	17	lb/100 gal	A						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
8	AMS		WG	17	lb/100 gal	B						
8	Ultra Blazer	2	L	24	fl oz/a	C						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
8	AMS		WG	17	lb/100 gal	C						
9	Ultra Blazer	2	L	24	fl oz/a	A	100	99	0	100	100	0
9	Ethotron	4	L	12	fl oz/a	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	A						
9	AMS		WG	17	lb/100 gal	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
9	AMS		WG	17	lb/100 gal	B						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
9	AMS		WG	17	lb/100 gal	C						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	89	2	100	93	0
10	AMS		WG	17	lb/100 gal	A						
10	Ultra Blazer	2	L	24	fl oz/a	B						
10	Ethotron	4	L	12	fl oz/a	B						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
10	AMS		WG	17	lb/100 gal	B						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
10	AMS		WG	17	lb/100 gal	C						
11	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	95	29	100	98	23
11	AMS		WG	17	lb/100 gal	A						
11	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
11	AMS		WG	17	lb/100 gal	B						
11	Ultra Blazer	2	L	24	fl oz/a	C						
11	Ethotron	4	L	12	fl oz/a	C						
11	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
11	AMS		WG	17	lb/100 gal	C						

Missing data estimates are included in columns: Average=20,22,23

Could not calculate LSD (% mean diff) for columns 11,18 because error mean square = 0.

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	POLCO	BETVU	CHEAL	POLCO	BETVU
Crop Code						
Rating Date	Jun-26-2018	Jun-26-2018	Jul-3-2018	Jul-3-2018	Jul-3-2018	Jul-10-2018
Rating Type	control	control	injury	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 DA-C	21 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
12	Ethotron	4	L	12	fl oz/a	A	100	97	5	100	100	7
12	Roundup PowerMax	4.5	SL	22	fl oz/a	A						
12	AMS		WG	17	lb/100 gal	A						
12	Ethotron	4	L	12	fl oz/a	B						
12	Roundup PowerMax	4.5	SL	22	fl oz/a	B						
12	AMS		WG	17	lb/100 gal	B						
12	Ethotron	4	L	12	fl oz/a	C						
12	Roundup PowerMax	4.5	SL	22	fl oz/a	C						
12	AMS		WG	17	lb/100 gal	C						
LSD P=.05							.	8.7	3.7	1.1	5.7	3.6
Standard Deviation							0.0	6.1	2.6	0.8	3.9	2.5
CV							0.0	6.95	27.26	0.86	4.4	31.07

Missing data estimates are included in columns: Average=20,22,23
 Could not calculate LSD (% mean diff) for columns 11,18 because error mean square = 0.

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	POLCO	BETVU	BETVU	BETVU
Crop Code					
Rating Date	Jul-10-2018	Jul-10-2018	Sep-18-2018	Sep-18-2018	Sep-18-2018
Rating Type	control	control	stand count	% sugar	yield
Rating Unit	percent	percent	100' row		
Trt-Eval Interval	21 DA-C	21 DA-C	118 DA-A	118 DA-A	118 DA-A
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	100	214	15.7	25.0
1	AMS		WG	17	lb/100 gal	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
1	AMS		WG	17	lb/100 gal	B					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
1	AMS		WG	17	lb/100 gal	C					
2	Ultra Blazer	2	L	8	fl oz/a	A	100	100	179	15.8	20.5
2	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
2	AMS		WG	17	lb/100 gal	A					
2	Ultra Blazer	2	L	8	fl oz/a	B					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
2	AMS		WG	17	lb/100 gal	B					
2	Ultra Blazer	2	L	8	fl oz/a	C					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
2	AMS		WG	17	lb/100 gal	C					
3	Ultra Blazer	2	L	16	fl oz/a	A	100	100	183	15.5	20.1
3	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
3	AMS		WG	17	lb/100 gal	A					
3	Ultra Blazer	2	L	16	fl oz/a	B					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
3	AMS		WG	17	lb/100 gal	B					
3	Ultra Blazer	2	L	16	fl oz/a	C					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
3	AMS		WG	17	lb/100 gal	C					
4	Untreated						0	0	41	15.8	1.6
5	Ultra Blazer	2	L	16	fl oz/a	A	99	100	186	15.6	24.9
5	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
5	AMS		WG	17	lb/100 gal	A					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
5	AMS		WG	17	lb/100 gal	B					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
5	AMS		WG	17	lb/100 gal	C					
6	Ultra Blazer	2	L	24	fl oz/a	A	100	100	174	15.5	22.9
6	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
6	AMS		WG	17	lb/100 gal	A					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
6	AMS		WG	17	lb/100 gal	B					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
6	AMS		WG	17	lb/100 gal	C					

Missing data estimates are included in columns: Average=20,22,23

Could not calculate LSD (% mean diff) for columns 11,18 because error mean square = 0.

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	POLCO	BETVU	BETVU	BETVU
Crop Code					
Rating Date	Jul-10-2018	Jul-10-2018	Sep-18-2018	Sep-18-2018	Sep-18-2018
Rating Type	control	control	stand count	% sugar	yield
Rating Unit	percent	percent	100' row		
Trt-Eval Interval	21 DA-C	21 DA-C	118 DA-A	118 DA-A	118 DA-A
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	100	196	14.7	24.9
7	AMS		WG	17	lb/100 gal	A					
7	Ultra Blazer	2	L	24	fl oz/a	B					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
7	AMS		WG	17	lb/100 gal	B					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
7	AMS		WG	17	lb/100 gal	C					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	100	200	15.1	21.7
8	AMS		WG	17	lb/100 gal	A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
8	AMS		WG	17	lb/100 gal	B					
8	Ultra Blazer	2	L	24	fl oz/a	C					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
8	AMS		WG	17	lb/100 gal	C					
9	Ultra Blazer	2	L	24	fl oz/a	A	100	100	193	15.2	23.2
9	Ethotron	4	L	12	fl oz/a	A					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
9	AMS		WG	17	lb/100 gal	A					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
9	AMS		WG	17	lb/100 gal	B					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
9	AMS		WG	17	lb/100 gal	C					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	100	187	15.4	24.1
10	AMS		WG	17	lb/100 gal	A					
10	Ultra Blazer	2	L	24	fl oz/a	B					
10	Ethotron	4	L	12	fl oz/a	B					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
10	AMS		WG	17	lb/100 gal	B					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
10	AMS		WG	17	lb/100 gal	C					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	A	100	100	196	14.6	21.6
11	AMS		WG	17	lb/100 gal	A					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
11	AMS		WG	17	lb/100 gal	B					
11	Ultra Blazer	2	L	24	fl oz/a	C					
11	Ethotron	4	L	12	fl oz/a	C					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
11	AMS		WG	17	lb/100 gal	C					

Missing data estimates are included in columns: Average=20,22,23

Could not calculate LSD (% mean diff) for columns 11,18 because error mean square = 0.

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	POLCO	BETVU	BETVU	BETVU
Crop Code					
Rating Date	Jul-10-2018	Jul-10-2018	Sep-18-2018	Sep-18-2018	Sep-18-2018
Rating Type	control	control	stand count	% sugar	yield
Rating Unit	percent	percent	100' row		
Trt-Eval Interval	21 DA-C	21 DA-C	118 DA-A	118 DA-A	118 DA-A
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
12	Ethotron	4	L	12	fl oz/a	A	100	100	199	15.6	23.3
12	Roundup PowerMax	4.5	SL	22	fl oz/a	A					
12	AMS		WG	17	lb/100 gal	A					
12	Ethotron	4	L	12	fl oz/a	B					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	B					
12	AMS		WG	17	lb/100 gal	B					
12	Ethotron	4	L	12	fl oz/a	C					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	C					
12	AMS		WG	17	lb/100 gal	C					
LSD P=.05							0.6	.	37.5	0.86	4.42
Standard Deviation							0.4	0.0	26.1	0.60	3.07
CV							0.47	0.0	14.57	3.89	14.52

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Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	BETVU	BETVU
Rating Date	Sep-18-2018	Sep-18-2018
Rating Type	RWST	RWSA
Rating Unit	#/ton	#/acre
Trt-Eval Interval	118 DA-A	118 DA-A
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code		
1	Roundup PowerMax	4.5	SL	22 fl oz/a		A	225	5612
1	AMS		WG	17 lb/100 gal		A		
1	Roundup PowerMax	4.5	SL	22 fl oz/a		B		
1	AMS		WG	17 lb/100 gal		B		
1	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
1	AMS		WG	17 lb/100 gal		C		
2	Ultra Blazer	2	L	8 fl oz/a		A	226	4641
2	Roundup PowerMax	4.5	SL	22 fl oz/a		A		
2	AMS		WG	17 lb/100 gal		A		
2	Ultra Blazer	2	L	8 fl oz/a		B		
2	Roundup PowerMax	4.5	SL	22 fl oz/a		B		
2	AMS		WG	17 lb/100 gal		B		
2	Ultra Blazer	2	L	8 fl oz/a		C		
2	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
2	AMS		WG	17 lb/100 gal		C		
3	Ultra Blazer	2	L	16 fl oz/a		A	221	4424
3	Roundup PowerMax	4.5	SL	22 fl oz/a		A		
3	AMS		WG	17 lb/100 gal		A		
3	Ultra Blazer	2	L	16 fl oz/a		B		
3	Roundup PowerMax	4.5	SL	22 fl oz/a		B		
3	AMS		WG	17 lb/100 gal		B		
3	Ultra Blazer	2	L	16 fl oz/a		C		
3	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
3	AMS		WG	17 lb/100 gal		C		
4	Untreated						227	387
5	Ultra Blazer	2	L	16 fl oz/a		A	223	5538
5	Roundup PowerMax	4.5	SL	22 fl oz/a		A		
5	AMS		WG	17 lb/100 gal		A		
5	Roundup PowerMax	4.5	SL	22 fl oz/a		B		
5	AMS		WG	17 lb/100 gal		B		
5	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
5	AMS		WG	17 lb/100 gal		C		
6	Ultra Blazer	2	L	24 fl oz/a		A	221	5046
6	Roundup PowerMax	4.5	SL	22 fl oz/a		A		
6	AMS		WG	17 lb/100 gal		A		
6	Roundup PowerMax	4.5	SL	22 fl oz/a		B		
6	AMS		WG	17 lb/100 gal		B		
6	Roundup PowerMax	4.5	SL	22 fl oz/a		C		
6	AMS		WG	17 lb/100 gal		C		

Missing data estimates are included in columns: Average=20,22,23

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Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	BETVU	BETVU
Rating Date	Sep-18-2018	Sep-18-2018
Rating Type	RWST	RWSA
Rating Unit	#/ton	#/acre
Trt-Eval Interval	118 DA-A	118 DA-A
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code		
7	Roundup PowerMax	4.5	SL	22 fl oz/a	A		207	5159
7	AMS		WG	17 lb/100 gal	A			
7	Ultra Blazer	2	L	24 fl oz/a	B			
7	Roundup PowerMax	4.5	SL	22 fl oz/a	B			
7	AMS		WG	17 lb/100 gal	B			
7	Roundup PowerMax	4.5	SL	22 fl oz/a	C			
7	AMS		WG	17 lb/100 gal	C			
8	Roundup PowerMax	4.5	SL	22 fl oz/a	A		216	4665
8	AMS		WG	17 lb/100 gal	A			
8	Roundup PowerMax	4.5	SL	22 fl oz/a	B			
8	AMS		WG	17 lb/100 gal	B			
8	Ultra Blazer	2	L	24 fl oz/a	C			
8	Roundup PowerMax	4.5	SL	22 fl oz/a	C			
8	AMS		WG	17 lb/100 gal	C			
9	Ultra Blazer	2	L	24 fl oz/a	A		216	5015
9	Ethotron	4	L	12 fl oz/a	A			
9	Roundup PowerMax	4.5	SL	22 fl oz/a	A			
9	AMS		WG	17 lb/100 gal	A			
9	Roundup PowerMax	4.5	SL	22 fl oz/a	B			
9	AMS		WG	17 lb/100 gal	B			
9	Roundup PowerMax	4.5	SL	22 fl oz/a	C			
9	AMS		WG	17 lb/100 gal	C			
10	Roundup PowerMax	4.5	SL	22 fl oz/a	A		219	5270
10	AMS		WG	17 lb/100 gal	A			
10	Ultra Blazer	2	L	24 fl oz/a	B			
10	Ethotron	4	L	12 fl oz/a	B			
10	Roundup PowerMax	4.5	SL	22 fl oz/a	B			
10	AMS		WG	17 lb/100 gal	B			
10	Roundup PowerMax	4.5	SL	22 fl oz/a	C			
10	AMS		WG	17 lb/100 gal	C			
11	Roundup PowerMax	4.5	SL	22 fl oz/a	A		206	4440
11	AMS		WG	17 lb/100 gal	A			
11	Roundup PowerMax	4.5	SL	22 fl oz/a	B			
11	AMS		WG	17 lb/100 gal	B			
11	Ultra Blazer	2	L	24 fl oz/a	C			
11	Ethotron	4	L	12 fl oz/a	C			
11	Roundup PowerMax	4.5	SL	22 fl oz/a	C			
11	AMS		WG	17 lb/100 gal	C			

Missing data estimates are included in columns: Average=20,22,23

Could not calculate LSD (% mean diff) for columns 11,18 because error mean square = 0.

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB03-18

Location: SVREC

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	BETVU	BETVU
Rating Date	Sep-18-2018	Sep-18-2018
Rating Type	RWST	RWSA
Rating Unit	#/ton	#/acre
Trt-Eval Interval	118 DA-A	118 DA-A
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code		
12	Ethotron	4	L	12	fl oz/a	A	222	5258
12	Roundup PowerMax	4.5	SL	22	fl oz/a	A		
12	AMS		WG	17	lb/100 gal	A		
12	Ethotron	4	L	12	fl oz/a	B		
12	Roundup PowerMax	4.5	SL	22	fl oz/a	B		
12	AMS		WG	17	lb/100 gal	B		
12	Ethotron	4	L	12	fl oz/a	C		
12	Roundup PowerMax	4.5	SL	22	fl oz/a	C		
12	AMS		WG	17	lb/100 gal	C		
	LSD P=.05						14.7	1016.5
	Standard Deviation						10.2	705.7
	CV						4.67	15.27

Missing data estimates are included in columns: Average=20,22,23

Could not calculate LSD (% mean diff) for columns 11,18 because error mean square = 0.