

MSU Weed Science Research Program

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Study Dir.: Sprague, Stiles, Powell
 Conducted: SVREC Investigator:

Planting Date: Apr-20-2022 **Row Spacing:** 30 IN
Variety: Crystal G049 **No. of Reps:** 4
Population: 4.375 " spacing **% OM:** 2.5
Soil Type: SCL sandy clay loam **pH:** 7.4
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
2	AMBEL	common ragweed	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	BETVU	Sugarbeet	

Application Description

	A	B	C	D
Application Timing:	PRE	2-Leaf	6-Leaf	10-12 Leaf
Date Treated:	Apr-20-2022	May-19-2022	Jun-1-2022	Jun-16-2022
Time Treated:	4:45 PM	2:40 PM	11:35 AM	10:00 AM
% Cloud Cover:	90	60	90	30
Air Temp., Unit:	52 F	71 F	75 F	80 F
% Relative Humidity:	37	62	66	54
Wind Speed/Unit/Dir:	7 MPH SSE	6 MPH SW	5 MPH NW	9 MPH W
Soil Temp, Unit:	48 F	70 F	75 F	72 F
Leaf Moist/Dew Presence (Y/N):	N	N	N	N
Soil Moist:	4	5	5	5

Crop Stage at Each Application

	A	B	C	D
Crop 1 Name:	BETVU	BETVU	BETVU	BETVU
Height:	1.25 "	4.5 "	11 "	
Stage:	2 L-4 L (2 L)	6 L-8 L (6 L)	10 L-12 L (10 L)	

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height:	0.75 "	5 "	8 "	
Stage:	4 L-8 L (6 L)	10 L-20 L (12 L)	10 L-24 L (12 L)	
Weed 2 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height:	0.75 "	3 "	11 "	
Stage:	4 L-8 L (6 L)	6 L-12 L (8 L)	10 L-Many (12 L)	

Weed Density

	1	2
Date:	Jun-16-2022	Jun-16-2022
Weed Name:	CHEAL	AMBEL
Density:	4 FT2	1 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	18.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	18.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	20.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
D	CUB	3.8 MPH	AIXR	11003	30.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU	C, BETVU	CHEAL
Rating Date	Jun-1-2022	Jun-8-2022	Jun-8-2022
Rating Type	injury	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	42 DA-A	7 DA-C	7 DA-C
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	0	0	100	100	0	99
1	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	0	100	100	0	99
	AMS	17 lb/100 gal		2 leaf	B						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
2	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	24	100	100	21	99
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	8 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	8 fl oz/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
3	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	24	100	100	18	100
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	16 fl oz/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
4	Untreated					0	0	0	0	0	0
5	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	34	100	100	25	100
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
6	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	0	100	100	0	100
	AMS	17 lb/100 gal		2 leaf	B						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	16 fl oz/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
7	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	63	100	100	50	100
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Dual Magnum	1.33 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						

Missing data estimates are included in columns: Average=21,22,23,24
 Could not calculate LSD (% mean diff) for columns 3,4,7,10,12,13,15,16,17,19 because error mean square = 0.

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 Investigator (Creator): Christy Sprague

Pest Code	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU
Rating Date	Jun-1-2022	Jun-8-2022	Jun-15-2022
Rating Type	injury	injury	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	42 DA-A	7 DA-C	14 DA-C
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	CHEAL	AMBEL	CHEAL
8	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	14	100
	AMS	17 lb/100 gal		2 leaf	B			100
	Ultra Blazer	16 fl oz/a		6 leaf	C			
	Warrant	3 pt/a		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C			
	AMS	17 lb/100 gal		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D			
	AMS	17 lb/100 gal		10-12 leaf	D			
9	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	38	100
	AMS	17 lb/100 gal		2 leaf	B			100
	Ultra Blazer	16 fl oz/a		6 leaf	C			
	Outlook	16 fl oz/a		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C			
	AMS	17 lb/100 gal		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D			
	AMS	17 lb/100 gal		10-12 leaf	D			
10	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	28	100
	AMS	17 lb/100 gal		2 leaf	B			100
	Ultra Blazer	16 fl oz/a		6 leaf	C			
	Ethotron	32 fl oz/a		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C			
	AMS	17 lb/100 gal		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D			
	AMS	17 lb/100 gal		10-12 leaf	D			
11	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	34	100
	AMS	17 lb/100 gal		2 leaf	B			100
	Ultra Blazer	16 fl oz/a		6 leaf	C			
	Stinger HL	2.4 fl oz/a		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C			
	AMS	17 lb/100 gal		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D			
	AMS	17 lb/100 gal		10-12 leaf	D			
12	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	0	11	100
	AMS	17 lb/100 gal		2 leaf	B			100
	Ultra Blazer	16 fl oz/a		6 leaf	C			
	Warrant	3 pt/a		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C			
	AMS	17 lb/100 gal		6 leaf	C			
	Ultra Blazer	16 fl oz/a		10-12 leaf	D			
	Warrant	3 pt/a		10-12 leaf	D			
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D			
	AMS	17 lb/100 gal		10-12 leaf	D			
13	Dual Magnum	0.5 pt/a		PRE	A	0	35	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B			100
	AMS	17 lb/100 gal		2 leaf	B			
	Ultra Blazer	16 fl oz/a		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C			
	AMS	17 lb/100 gal		6 leaf	C			
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D			
	AMS	17 lb/100 gal		10-12 leaf	D			

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Pest Code				CHEAL	AMBEL		CHEAL				
Crop Type, Code		C, BETVU	C, BETVU			C, BETVU					
Rating Date		Jun-1-2022	Jun-8-2022	Jun-8-2022	Jun-8-2022	Jun-15-2022	Jun-15-2022				
Rating Type		injury	injury	control	control	injury	control				
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100				
Trt-Eval Interval		42 DA-A	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C				
Number of Decimals		0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
14	Ethotron	32 fl oz/a		PRE	A	0	33	100	100	24	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
15	Stinger HL	1.2 fl oz/a		2 leaf	B	8	8	100	100	5	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
16	Stinger HL	1.2 fl oz/a		2 leaf	B	8	21	100	100	24	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
LSD P=.05						1.2	7.4	.	.	6.2	0.7
Standard Deviation						0.8	5.2	0.0	0.0	4.3	0.5
CV						83.67	22.87	0.0	0.0	24.18	0.55

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Pest Code	AMBEL	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU
Rating Date	Jun-15-2022	Jun-23-2022	Jun-23-2022	Jun-30-2022
Rating Type	control	injury	control	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-C	7 DA-D	7 DA-D	14 DA-D
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	AMBEL	CHEAL	AMBEL	CHEAL
1	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	0
	AMS	17 lb/100 gal		2 leaf	B				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
2	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	30	100	26
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	8 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Ultra Blazer	8 fl oz/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
3	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	25	100	22
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Ultra Blazer	16 fl oz/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
4	Untreated					0	0	0	0
5	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	18	100	13
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
6	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	18	100	17
	AMS	17 lb/100 gal		2 leaf	B				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Ultra Blazer	16 fl oz/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
7	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	40	100	34
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Dual Magnum	1.33 pt/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				

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Pest Code	AMBEL	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU		C, BETVU	
Rating Date	Jun-15-2022	Jun-23-2022	Jun-23-2022	Jun-30-2022
Rating Type	control	injury	control	injury
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Trt-Eval Interval	14 DA-C	7 DA-D	7 DA-D	14 DA-D
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	AMBEL	CHEAL	AMBEL	CHEAL		
8	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	8	100	100	5	100
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
9	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D	100	14	100	100	11	100
	AMS	17 lb/100 gal		10-12 leaf	D						
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Outlook	16 fl oz/a		6 leaf	C						
10	Roundup PowerMax 3	20 fl oz/a		6 leaf	C	100	6	100	100	4	100
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
11	Ultra Blazer	16 fl oz/a		6 leaf	C	100	8	100	100	6	100
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
12	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	19	100	100	13	100
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
13	Ultra Blazer	16 fl oz/a		10-12 leaf	D	100	18	100	100	10	100
	Warrant	3 pt/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
	Dual Magnum	0.5 pt/a		PRE	A						
	AMS	17 lb/100 gal		2 leaf	B						
13	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	18	100	100	10	100
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
AMS	17 lb/100 gal		10-12 leaf	D							

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Crop Type, Code		C, BETVU		C, BETVU							
Rating Date		Jun-15-2022	Jun-23-2022	Jun-23-2022	Jun-30-2022						
Rating Type		control	injury	control	injury						
Rating Unit/Min/Max		% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100						
Trt-Eval Interval		14 DA-C	7 DA-D	7 DA-D	14 DA-D						
Number of Decimals		0	0	0	0						
Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
14	Ethotron	32 fl oz/a		PRE	A	100	16	100	100	10	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
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	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
15	Stinger HL	1.2 fl oz/a		2 leaf	B	100	4	100	100	3	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
16	Stinger HL	1.2 fl oz/a		2 leaf	B	100	8	100	100	6	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
	LSD P=.05					.	5.8	0.4	.	7.2	.
	Standard Deviation					0.0	4.1	0.3	0.0	5.1	0.0
	CV					0.0	28.5	0.27	0.0	45.43	0.0

Missing data estimates are included in columns: Average=21,22,23,24
 Could not calculate LSD (% mean diff) for columns 3,4,7,10,12,13,15,16,17,19 because error mean square = 0.

Michigan State University

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Cooperator Trial ID:
 Protocol ID: SB01-22 Location: SVREC Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	AMBEL	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU
Rating Date	Jun-30-2022	Jul-14-2022	Jul-14-2022	Aug-25-2022
Rating Type	control	injury	control	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-D	28 DA-D	28 DA-D	70 DA-D
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	AMBEL	CHEAL	AMBEL	CHEAL
1	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
2	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	4	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	8 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Ultra Blazer	8 fl oz/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
3	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	6	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Ultra Blazer	16 fl oz/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
4	Untreated					0	0	0	0
5	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
6	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	5	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Ultra Blazer	16 fl oz/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
7	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Dual Magnum	1.33 pt/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				

Missing data estimates are included in columns: Average=21,22,23,24
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Michigan State University

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Cooperator Trial ID:
 Protocol ID: SB01-22 Location: SVREC Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	AMBEL	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU		C, BETVU	
Rating Date	Jun-30-2022	Jul-14-2022	Jul-14-2022	Aug-25-2022
Rating Type	control	injury	control	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-D	28 DA-D	28 DA-D	70 DA-D
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	AMBEL	CHEAL	AMBEL	CHEAL
8	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Warrant	3 pt/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
9	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Outlook	16 fl oz/a		6 leaf	C				
10	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
11	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Ethotron	32 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
12	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	1	100	100
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Warrant	3 pt/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
13	Ultra Blazer	16 fl oz/a		10-12 leaf	D				
	Warrant	3 pt/a		10-12 leaf	D				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
	AMS	17 lb/100 gal		10-12 leaf	D				
	Roundup PowerMax 3	0.5 pt/a		PRE	A	100	0	100	100
	AMS	17 lb/100 gal		2 leaf	B				
13	Roundup PowerMax 3	30 fl oz/a		2 leaf	B				
	AMS	17 lb/100 gal		2 leaf	B				
	Ultra Blazer	16 fl oz/a		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C				
	AMS	17 lb/100 gal		6 leaf	C				
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D				
AMS	17 lb/100 gal		10-12 leaf	D					

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Michigan State University

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Cooperator Trial ID:
 Protocol ID: SB01-22 Location: SVREC Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code		AMBEL	CHEAL	AMBEL	CHEAL						
Crop Type, Code		C, BETVU		C, BETVU							
Rating Date		Jun-30-2022	Jul-14-2022	Jul-14-2022	Aug-25-2022						
Rating Type		control	injury	control	injury						
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100						
Trt-Eval Interval		14 DA-D	28 DA-D	28 DA-D	70 DA-D						
Number of Decimals		0	0	0	0						
Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
14	Ethotron	32 fl oz/a		PRE	A	100	0	100	100	0	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
15	Stinger HL	1.2 fl oz/a		2 leaf	B	100	0	100	100	0	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
16	Stinger HL	1.2 fl oz/a		2 leaf	B	100	0	100	100	0	100
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
LSD P=.05							1.7				1.2
Standard Deviation						0.0	1.2	0.0	0.0	0.0	0.8
CV						0.0	121.79	0.0	0.0	0.0	0.87

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Michigan State University

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Cooperator Trial ID:
 Protocol ID: SB01-22 Location: SVREC Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	AMBEL					
Crop Type, Code	Aug-25-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022
Rating Date	control	stand count	sugar	RWST	yield	RWSA
Rating Type	%	100'	%	lb/ton	ton/A	lb/A
Rating Unit/Min/Max	0, 100	ROW, -, -	0, 100	lb/ton, -, -	ton/A, -, -	lb/A, -, -
Trt-Eval Interval	70 DA-D	@ harvest	harvest	harvest	harvest	harvest
Number of Decimals	0	0	1	0	1	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
1	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	181	16.1	235	28.7	6749
	AMS	17 lb/100 gal		2 leaf	B						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
2	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	174	15.7	226	23.1	5238
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	8 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	8 fl oz/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
3	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	166	16.1	235	23.4	5490
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	16 fl oz/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
4	Untreated					0	150	17.3	254	8.7	2206
5	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	167	16.1	235	25.8	6052
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
6	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	167	15.7	227	26.8	6098
	AMS	17 lb/100 gal		2 leaf	B						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	16 fl oz/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
7	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	169	15.7	228	22.9	5197
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Dual Magnum	1.33 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						

Missing data estimates are included in columns: Average=21,22,23,24
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Michigan State University

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Cooperator Trial ID:
 Protocol ID: SB01-22 Location: SVREC Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	AMBEL					
Crop Type, Code	Aug-25-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022
Rating Date	control	stand count	sugar	RWST	yield	RWSA
Rating Type	%	100'	%	lb/ton	ton/A	lb/A
Rating Unit/Min/Max	0, 100	ROW, -, -	0, 100	lb/ton, -, -	ton/A, -, -	lb/A, -, -
Trt-Eval Interval	70 DA-D	@ harvest	harvest	harvest	harvest	harvest
Number of Decimals	0	0	1	0	1	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
8	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	187	16.1	233	26.1	6046
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
9	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	172	15.7	227	25.0	5690
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Outlook	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
10	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	165	16.2	235	26.4	6195
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Ethotron	32 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
11	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	155	16.1	236	24.0	5670
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
12	Roundup PowerMax 3	30 fl oz/a		2 leaf	B	100	171	16.3	238	24.9	5905
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Ultra Blazer	16 fl oz/a		10-12 leaf	D						
	Warrant	3 pt/a		10-12 leaf	D						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
13	Dual Magnum	0.5 pt/a		PRE	A	100	151	15.8	229	25.2	5796
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						

Missing data estimates are included in columns: Average=21,22,23,24
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Michigan State University

Sugarbeet tolerance and weed control from postemergence applications of Ultra Blazer

Trial ID: SB01-22 Cooperator Trial ID:
 Protocol ID: SB01-22 Location: SVREC Trial Year: 2022
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 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

					AMBEL						
Pest Code											
Crop Type, Code											
Rating Date					Aug-25-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	Aug-31-2022	
Rating Type					control	stand count	sugar	RWST	yield	RWSA	
Rating Unit/Min/Max					%, 0, 100	100' ROW, -, -	%, 0, 100	lb/ton, -, -	ton/A, -, -	lb/A, -, -	
Trt-Eval Interval					70 DA-D	@ harvest	harvest	harvest	harvest	harvest	
Number of Decimals					0	0	1	0	1	0	
Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
14	Ethotron	32 fl oz/a		PRE	A	100	161	15.6	224	25.8	5792
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
15	Stinger HL	1.2 fl oz/a		2 leaf	B	100	179	16.0	231	27.5	6373
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
16	Stinger HL	1.2 fl oz/a		2 leaf	B	100	179	16.2	234	24.6	5708
	Roundup PowerMax 3	30 fl oz/a		2 leaf	B						
	AMS	17 lb/100 gal		2 leaf	B						
	Stinger HL	2.4 fl oz/a		6 leaf	C						
	Ultra Blazer	16 fl oz/a		6 leaf	C						
	Warrant	3 pt/a		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		6 leaf	C						
	AMS	17 lb/100 gal		6 leaf	C						
	Roundup PowerMax 3	20 fl oz/a		10-12 leaf	D						
	AMS	17 lb/100 gal		10-12 leaf	D						
LSD P=.05						.	24.8	0.86	14.5	4.42	969.0
Standard Deviation						0.0	17.4	0.60	10.2	3.10	679.5
CV						0.0	10.34	3.74	4.36	12.75	12.05

Missing data estimates are included in columns: Average=21,22,23,24
 Could not calculate LSD (% mean diff) for columns 3,4,7,10,12,13,15,16,17,19 because error mean square = 0.