

Evaluation of new formulations of Sequence for use in sugarbeet

Trial ID: SB02-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: SVREC Investigator: Christy Sprague

Planting Date: Apr-16-2016 **Row Spacing:** 30 IN
Variety: Hilleshog 9616RR **No. of Reps:** 4
Population: 4.37 spacing **% OM:** 2.5
Soil Type: SCL sandy clay loam **pH:** 7.8
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall moldboard plow; spring soil finished with fertilizer; planted stale seedbed
Fertilizer: 217 lb/A Urea-broadcast and incorporated (100 lb of actual N/A)

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	CHEAL	lambsquarters, common	Chenopodium album
2	AMBEL	ragweed, common	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	BEAVA	Sugarbeet	

Application Description

A
Application Timing: POST
Date Treated: Jun-2-2016
Time Treated: 11:30 AM
% Cloud Cover: 5
Air Temp., Unit: 75 F
% Relative Humidity: 40
Wind Speed/Unit/Dir: 8 mph W
Soil Temp, Unit: 71 F
Leaf Moist/Dew Presence (Y/N): 0
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: BEAVA
Height: 5 "
Stage: 8-10L

Weed Stage at Each Application

A
Weed 1 Name: CHEAL
Height: 2-6 " (5)
Stage: 8-12L
Weed 2 Name: AMBEL
Height: 2-6 " (5)
Stage: 6-8L

Weed Density

	1	2
Date:	Jun-2-2016	Jun-2-2016
Weed Name:	CHEAL	AMBEL
Density:	8 FT ²	4 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	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code				CHEAL	AMAPO	AMBEL	
Crop Code	BETVU	BETVU	BETVU				BETVU
Rating Date	Jun-5-2016	Jun-9-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-30-2016
Rating Type	injury	injury	injury	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	3 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Sequence	3 pt/a	A	0	0	0	66	100	98	0
1	AMS (Liquid)	2.5 % v/v	A							
2	Sequence	6 pt/a	A	2	2	0	77	100	100	0
2	AMS (Liquid)	2.5 % v/v	A							
3	'AN' A20009'	3.7 pt/a	A	2	1	0	51	100	96	0
3	AMS (Liquid)	2.5 % v/v	A							
4	'AN' A20009'	7.4 pt/a	A	4	2	0	64	100	99	0
4	AMS (Liquid)	2.5 % v/v	A							
5	Roundup PowerMax	25 fl oz/a	A	1	0	0	94	100	98	0
5	AMS (Liquid)	2.5 % v/v	A							
6	Untreated			0	0	0	0	0	0	0
7	'AX' A20009'	3.7 pt/a	A	2	1	0	60	100	97	0
7	AMS (Liquid)	2.5 % v/v	A							
8	'AX' A20009'	7.4 pt/a	A	4	1	0	64	100	99	0
8	AMS (Liquid)	2.5 % v/v	A							
9	'AY' A20009'	3.7 pt/a	A	2	1	0	55	100	95	0
9	AMS (Liquid)	2.5 % v/v	A							
10	'AY' A20009'	7.4 pt/a	A	5	4	0	65	100	100	0
10	AMS (Liquid)	2.5 % v/v	A							
11	'BA' A20009'	3.7 pt/a	A	3	1	0	55	100	100	0
11	AMS (Liquid)	2.5 % v/v	A							
12	'BA' A20009'	7.4 pt/a	A	4	1	0	65	100	100	0
12	AMS (Liquid)	2.5 % v/v	A							
13	'BB' A20009'	3.7 pt/a	A	2	2	0	60	100	99	0
13	AMS (Liquid)	2.5 % v/v	A							
14	'BB' A20009'	7.4 pt/a	A	2	2	0	66	100	100	0
14	AMS (Liquid)	2.5 % v/v	A							
15	Dual Magnum	1.18 pt/a	A	9	7	0	99	100	98	0
15	Roundup PowerMax	25 fl oz/a	A							
15	AMS (Liquid)	2.5 % v/v	A							

Could not calculate LSD (% mean diff) for columns 3,5,7,9 because error mean square = 0.

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Crop Code	BETVU	BETVU	BETVU				BETVU
Rating Date	Jun-5-2016	Jun-9-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-30-2016
Rating Type	injury	injury	injury	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	3 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
16	Outlook	18 fl oz/a	A	2	0	0	97	100	95	0
16	Roundup PowerMax	25 fl oz/a	A							
16	AMS (Liquid)	2.5 % v/v	A							
LSD	P=.05	2.2		2.4		.	11.8		4.2	.
Standard Deviation		1.5		1.7		0.0	8.3	0.0	3.0	0.0
CV		57.97		113.8		0.0	12.8	0.0	3.23	0.0

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Pest Code	CHEAL	AMAPO	AMBEL	POLCO
Crop Code				
Rating Date	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016
Rating Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code				
		Rate Unit					
1	Sequence	3 pt/a	A	70	100	100	78
1	AMS (Liquid)	2.5 % v/v	A				
2	Sequence	6 pt/a	A	82	100	100	91
2	AMS (Liquid)	2.5 % v/v	A				
3	'AN' A20009'	3.7 pt/a	A	49	100	100	81
3	AMS (Liquid)	2.5 % v/v	A				
4	'AN' A20009'	7.4 pt/a	A	73	100	100	96
4	AMS (Liquid)	2.5 % v/v	A				
5	Roundup PowerMax	25 fl oz/a	A	96	100	99	94
5	AMS (Liquid)	2.5 % v/v	A				
6	Untreated			0	0	0	0
7	'AX' A20009'	3.7 pt/a	A	53	100	100	79
7	AMS (Liquid)	2.5 % v/v	A				
8	'AX' A20009'	7.4 pt/a	A	65	100	100	100
8	AMS (Liquid)	2.5 % v/v	A				
9	'AY' A20009'	3.7 pt/a	A	40	100	100	83
9	AMS (Liquid)	2.5 % v/v	A				
10	'AY' A20009'	7.4 pt/a	A	61	100	100	98
10	AMS (Liquid)	2.5 % v/v	A				
11	'BA' A20009'	3.7 pt/a	A	49	100	100	81
11	AMS (Liquid)	2.5 % v/v	A				
12	'BA' A20009'	7.4 pt/a	A	68	100	100	96
12	AMS (Liquid)	2.5 % v/v	A				
13	'BB' A20009'	3.7 pt/a	A	44	100	100	80
13	AMS (Liquid)	2.5 % v/v	A				
14	'BB' A20009'	7.4 pt/a	A	59	100	100	95
14	AMS (Liquid)	2.5 % v/v	A				
15	Dual Magnum	1.18 pt/a	A	100	100	100	99
15	Roundup PowerMax	25 fl oz/a	A				
15	AMS (Liquid)	2.5 % v/v	A				

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Pest Code	CHEAL	AMAPO	AMBEL	POLCO
Crop Code				
Rating Date	Jun-30-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016
Rating Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code			
		Rate Unit				
16	Outlook	18 fl oz/a	A	100	100	100
16	Roundup PowerMax	25 fl oz/a	A			98
16	AMS (Liquid)	2.5 % v/v	A			
LSD	P=.05	10.6		.	0.5	10.4
Standard Deviation		7.4		0.0	0.4	7.3
CV		11.83		0.0	0.4	8.64