

**Weed control in sugarbeet with Rinskor**

Trial ID: SB02-22 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
<b>Application Timing:</b>	COT-2 L	+ 10 D
<b>Date Treated:</b>	May-13-2022	May-25-2022
<b>Time Treated:</b>	9:45 AM	9:40 AM
<b>% Cloud Cover:</b>	0	20
<b>Air Temp., Unit:</b>	76 F	65 F
<b>% Relative Humidity:</b>	42	68
<b>Wind Speed/Unit/Dir:</b>	6 MPH SE	8 MPH E
<b>Soil Temp, Unit:</b>	67 F	64 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	N	N
<b>Soil Moist:</b>	5	5

**Crop Stage at Each Application**

	A	B
<b>Crop 1 Name:</b>	BETVU	BETVU
<b>Height:</b>	1 "	2.5 "
<b>Stage:</b>	COT	4 L-6 L (5 L)

**Weed Stage at Each Application**

	A	B
<b>Weed 1 Name:</b>	CHEAL	CHEAL
<b>Height:</b>	0.75 "	1.5 "
<b>Stage:</b>	2 L	6 L
<b>Weed 2 Name:</b>	AMBEL	AMBEL
<b>Height:</b>	0.75 "	2 "
<b>Stage:</b>	2 L	4 L-12 L (8 L)

**Weed Density**

	1	2
<b>Date:</b>	May-25-2022	May-25-2022
<b>Weed Name:</b>	CHEAL	AMBEL
<b>Density:</b>	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	20.0 "	20 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	18.0 "	20 "	100.0 "	19 GAL/AC	WATER	30 PSI

**Comments:**

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Trial ID: SB02-22 Location: SVREC Trial Year: 2022  
 Protocol ID: SB02-22 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

				CHEAL	AMBEL	CHEAL		
Pest Code	Crop Type, Code	Rating Date	Rating Type	C, BETVU May-16-2022	C, BETVU May-20-2022	C, BETVU May-20-2022	C, BETVU May-25-2022	CHEAL May-25-2022
Rating Unit/Min/Max	Trt-Eval Interval	Number of Decimals		injury %, 0, 100	injury %, 0, 100	control %, 0, 100	injury %, 0, 100	control %, 0, 100
				3 DA-A	7 DA-A	7 DA-A	0 DA-B	0 DA-B
				0	0	0	0	0
Trt No.	Treatment Name	Rate	Appl Unit Timing	Appl Code				
1	Roundup PowerMax 3	25 fl oz/a	cot-2lf weed	A	0	0	100	100
	AMSOL	2.5 % v/v	cot-2lf weed	A				
	Roundup PowerMax 3	25 fl oz/a	+10 d	B				
	AMSOL	2.5 % v/v	+10 d	B				
2	Loyant	0.274 fl oz/a	cot-2lf weed	A	24	20	81	100
	Destiny HC	0.5 % v/v	cot-2lf weed	A				
	Loyant	0.274 fl oz/a	+10 d	B				
	Destiny HC	0.5 % v/v	+10 d	B				
3	Loyant	0.41 fl oz/a	cot-2lf weed	A	25	24	90	95
	Destiny HC	0.5 % v/v	cot-2lf weed	A				
	Loyant	0.41 fl oz/a	+10 d	B				
	Destiny HC	0.5 % v/v	+10 d	B				
4	Loyant	0.547 fl oz/a	cot-2lf weed	A	26	26	85	96
	Destiny HC	0.5 % v/v	cot-2lf weed	A				
	Loyant	0.547 fl oz/a	+10 d	B				
	Destiny HC	0.5 % v/v	+10 d	B				
5	Loyant	0.274 fl oz/a	cot-2lf weed	A	31	24	100	100
	Roundup PowerMax 3	25 fl oz/a	cot-2lf weed	A				
	Ethofumesate	6 fl oz/a	cot-2lf weed	A				
	Destiny HC	0.5 % v/v	cot-2lf weed	A				
	AMSOL	2.5 % v/v	cot-2lf weed	A				
	Loyant	0.274 fl oz/a	+10 d	B				
	Roundup PowerMax 3	25 fl oz/a	+10 d	B				
	Ethofumesate	6 fl oz/a	+10 d	B				
	Destiny HC	0.5 % v/v	+10 d	B				
	AMSOL	2.5 % v/v	+10 d	B				
6	Loyant	0.41 fl oz/a	cot-2lf weed	A	33	33	100	100
	Roundup PowerMax 3	25 fl oz/a	cot-2lf weed	A				
	Ethofumesate	6 fl oz/a	cot-2lf weed	A				
	Destiny HC	0.5 % v/v	cot-2lf weed	A				
	AMSOL	2.5 % v/v	cot-2lf weed	A				
	Loyant	0.41 fl oz/a	+10 d	B				
	Roundup PowerMax 3	25 fl oz/a	+10 d	B				
	Ethofumesate	6 fl oz/a	+10 d	B				
	Destiny HC	0.5 % v/v	+10 d	B				
	AMSOL	2.5 % v/v	+10 d	B				
7	Loyant	0.547 fl oz/a	cot-2lf weed	A	33	21	100	100
	Roundup PowerMax 3	25 fl oz/a	cot-2lf weed	A				
	Ethofumesate	6 fl oz/a	cot-2lf weed	A				
	Destiny HC	0.5 % v/v	cot-2lf weed	A				
	AMSOL	2.5 % v/v	cot-2lf weed	A				
	Loyant	0.547 fl oz/a	+10 d	B				
	Roundup PowerMax 3	25 fl oz/a	+10 d	B				
	Ethofumesate	6 fl oz/a	+10 d	B				
	Destiny HC	0.5 % v/v	+10 d	B				
	AMSOL	2.5 % v/v	+10 d	B				
8	Untreated				0	0	0	0

Could not calculate LSD (% mean diff) for columns 16,19,22,25 because error mean square = 0.

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 Protocol ID: SB02-22 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	C, BETVU	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL
Crop Type, Code	May-16-2022	May-20-2022	May-20-2022	May-20-2022	May-25-2022	May-25-2022
Rating Date	injury	injury	control	control	injury	control
Rating Type	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Rating Unit/Min/Max	3 DA-A	7 DA-A	7 DA-A	7 DA-A	0 DA-B	0 DA-B
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
9	Loyant	0.274	fl oz/a	cot-2lf	weed A	29	25	100	100	23	100
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	Ethofumesate	6	fl oz/a	cot-2lf	weed A						
	Destiny HC	0.5	% v/v	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Loyant	0.274	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
10	Loyant	0.41	fl oz/a	cot-2lf	weed A	33	31	100	100	33	100
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	Ethofumesate	6	fl oz/a	cot-2lf	weed A						
	Destiny HC	0.5	% v/v	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Loyant	0.41	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
11	Loyant	0.547	fl oz/a	cot-2lf	weed A	35	36	100	100	33	100
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	Ethofumesate	6	fl oz/a	cot-2lf	weed A						
	Destiny HC	0.5	% v/v	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Loyant	0.547	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
12	Stinger HL	1.2	fl oz/a	cot-2lf	weed A	3	4	89	89	3	89
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Stinger HL	2.4	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
	LSD P=.05					5.0	5.1	4.8	4.8	5.9	8.1
	Standard Deviation					3.5	3.5	3.4	3.4	4.1	5.6
	CV					15.47	17.32	3.87	3.75	23.71	6.54

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 Sponsor Contact:

Pest Code	AMBEL	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU		C, BETVU	
Rating Date	May-25-2022	Jun-1-2022	Jun-1-2022	Jun-8-2022
Rating Type	control	injury	control	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	0 DA-B	7 DA-B	7 DA-B	14 DA-B
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code	AMBEL	CHEAL	AMBEL	CHEAL
1	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A	100	0	100	100
	AMSOL	2.5 % v/v		cot-2lf weed	A				
	Roundup PowerMax 3	25 fl oz/a		+10 d	B				
	AMSOL	2.5 % v/v		+10 d	B				
2	Loyant	0.274 fl oz/a		cot-2lf weed	A	95	25	93	96
	Destiny HC	0.5 % v/v		cot-2lf weed	A				
	Loyant	0.274 fl oz/a		+10 d	B				
	Destiny HC	0.5 % v/v		+10 d	B				
3	Loyant	0.41 fl oz/a		cot-2lf weed	A	95	29	91	96
	Destiny HC	0.5 % v/v		cot-2lf weed	A				
	Loyant	0.41 fl oz/a		+10 d	B				
	Destiny HC	0.5 % v/v		+10 d	B				
4	Loyant	0.547 fl oz/a		cot-2lf weed	A	99	31	94	100
	Destiny HC	0.5 % v/v		cot-2lf weed	A				
	Loyant	0.547 fl oz/a		+10 d	B				
	Destiny HC	0.5 % v/v		+10 d	B				
5	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	15	100	100
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A				
	Ethofumesate	6 fl oz/a		cot-2lf weed	A				
	Destiny HC	0.5 % v/v		cot-2lf weed	A				
	AMSOL	2.5 % v/v		cot-2lf weed	A				
	Loyant	0.274 fl oz/a		+10 d	B				
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	Ethofumesate	6 fl oz/a		+10 d	B				
	Destiny HC	0.5 % v/v		+10 d	B				
	AMSOL	2.5 % v/v		+10 d	B				
6	Loyant	0.41 fl oz/a		cot-2lf weed	A	100	30	100	100
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A				
	Ethofumesate	6 fl oz/a		cot-2lf weed	A				
	Destiny HC	0.5 % v/v		cot-2lf weed	A				
	AMSOL	2.5 % v/v		cot-2lf weed	A				
	Loyant	0.41 fl oz/a		+10 d	B				
	Roundup PowerMax 3	25 fl oz/a		+10 d	B				
	Ethofumesate	6 fl oz/a		+10 d	B				
	Destiny HC	0.5 % v/v		+10 d	B				
	AMSOL	2.5 % v/v		+10 d	B				
7	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	33	100	100
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A				
	Ethofumesate	6 fl oz/a		cot-2lf weed	A				
	Destiny HC	0.5 % v/v		cot-2lf weed	A				
	AMSOL	2.5 % v/v		cot-2lf weed	A				
	Loyant	0.547 fl oz/a		+10 d	B				
	Roundup PowerMax 3	25 fl oz/a		+10 d	B				
	Ethofumesate	6 fl oz/a		+10 d	B				
	Destiny HC	0.5 % v/v		+10 d	B				
	AMSOL	2.5 % v/v		+10 d	B				
8	Untreated					0	0	0	0

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Pest Code	AMBEL	CHEAL	AMBEL	CHEAL
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU
Rating Date	May-25-2022	Jun-1-2022	Jun-1-2022	Jun-8-2022
Rating Type	control	injury	control	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	0 DA-B	7 DA-B	7 DA-B	14 DA-B
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	AMBEL	CHEAL	AMBEL	CHEAL		
9	Loyant	0.274	fl oz/a	cot-2lf weed	A	100	23	98	98	26	100
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.274	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
10	Loyant	0.41	fl oz/a	cot-2lf weed	A	100	35	100	100	29	100
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.41	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
11	Loyant	0.547	fl oz/a	cot-2lf weed	A	100	35	100	100	25	100
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.547	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
12	Stinger HL	1.2	fl oz/a	cot-2lf weed	A	84	18	96	98	15	98
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Stinger HL	2.4	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
	LSD P=.05					6.8	5.9	4.9	5.3	6.4	2.8
	Standard Deviation					4.7	4.1	3.4	3.7	4.4	2.0
	CV					5.3	18.15	3.84	4.07	23.24	2.2

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 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMBEL	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL
Crop Type, Code						
Rating Date	Jun-8-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-30-2022	Jun-30-2022
Rating Type	control	injury	control	control	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-B	30 DA-B	30 DA-B	30 DA-B	36 DA-B	36 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code	AMBEL	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL
1	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A	100	0	97	100	0	94
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
2	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	13	82	100	7	82
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.274 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
3	Loyant	0.41 fl oz/a		cot-2lf weed	A	99	18	87	100	14	83
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.41 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
4	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	23	87	100	17	85
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.547 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
5	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	16	99	100	13	96
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.274 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
6	Loyant	0.41 fl oz/a		cot-2lf weed	A	100	19	99	100	22	100
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.41 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
7	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	19	100	100	26	99
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.547 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
8	Untreated					0	0	0	0	0	0

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 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMBEL	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL
Crop Type, Code						
Rating Date	Jun-8-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-30-2022	Jun-30-2022
Rating Type	control	injury	control	control	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-B	30 DA-B	30 DA-B	30 DA-B	36 DA-B	36 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
9	Loyant	0.274	fl oz/a	cot-2lf	weed A	100	11	100	100	10	100
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	Ethofumesate	6	fl oz/a	cot-2lf	weed A						
	Destiny HC	0.5	% v/v	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Loyant	0.274	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
10	Loyant	0.41	fl oz/a	cot-2lf	weed A	100	19	100	100	20	100
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	Ethofumesate	6	fl oz/a	cot-2lf	weed A						
	Destiny HC	0.5	% v/v	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Loyant	0.41	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
11	Loyant	0.547	fl oz/a	cot-2lf	weed A	100	23	100	100	25	100
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	Ethofumesate	6	fl oz/a	cot-2lf	weed A						
	Destiny HC	0.5	% v/v	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Loyant	0.547	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
12	Stinger HL	1.2	fl oz/a	cot-2lf	weed A	99	2	93	100	4	95
	Dual Magnum	1	pt/a	cot-2lf	weed A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf	weed A						
	AMSOL	2.5	% v/v	cot-2lf	weed A						
	Stinger HL	2.4	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
	LSD P=.05					0.9	6.0	5.6	.	5.1	6.6
	Standard Deviation					0.6	4.2	3.9	0.0	3.6	4.6
	CV					0.68	30.52	4.47	0.0	27.37	5.33

Could not calculate LSD (% mean diff) for columns 16,19,22,25 because error mean square = 0.

Michigan State University

Weed control in sugarbeet with Rinskor

Trial ID: SB02-22 Location: SVREC Trial Year: 2022  
 Protocol ID: SB02-22 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code				AMBEL	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL		
Crop Type, Code				Jun-30-2022	Jul-15-2022	Jul-15-2022	Jul-15-2022	Aug-25-2022	Aug-25-2022		
Rating Date				control	injury	control	control	injury	control		
Rating Type				%	%	%	%	%	%		
Rating Unit/Min/Max				0, 100	0, 100	0, 100	0, 100	0, 100	0, 100		
Trt-Eval Interval				36 DA-B	51 DA-B	51 DA-B	51 DA-B	92 DA-B	92 DA-B		
Number of Decimals				0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code						
1	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A	100	0	96	100	0	90
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
2	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	3	78	100	2	75
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.274 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
3	Loyant	0.41 fl oz/a		cot-2lf weed	A	100	10	76	100	3	77
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.41 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
4	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	17	88	100	6	80
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.547 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
5	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	6	94	100	4	95
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.274 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
6	Loyant	0.41 fl oz/a		cot-2lf weed	A	100	20	97	100	7	98
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.41 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
7	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	26	98	100	10	98
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.547 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
8	Untreated					0	0	0	0	0	0

Could not calculate LSD (% mean diff) for columns 16,19,22,25 because error mean square = 0.



Michigan State University

Weed control in sugarbeet with Rinskor

Trial ID: SB02-22 Location: SVREC Trial Year: 2022  
 Protocol ID: SB02-22 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMBEL	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL
Crop Type, Code						
Rating Date	Jun-30-2022	Jul-15-2022	Jul-15-2022	Jul-15-2022	Aug-25-2022	Aug-25-2022
Rating Type	control	injury	control	control	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	36 DA-B	51 DA-B	51 DA-B	51 DA-B	92 DA-B	92 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code	AMBEL	C, BETVU	CHEAL	AMBEL	C, BETVU	CHEAL
9	Loyant	0.274	fl oz/a	cot-2lf weed	A	100	3	100	100	4	100
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.274	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
10	Loyant	0.41	fl oz/a	cot-2lf weed	A	100	13	100	100	6	100
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.41	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
11	Loyant	0.547	fl oz/a	cot-2lf weed	A	100	20	100	100	9	100
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.547	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
12	Stinger HL	1.2	fl oz/a	cot-2lf weed	A	100	0	93	100	0	90
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Stinger HL	2.4	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
	LSD P=.05						7.8	8.9		4.0	9.7
	Standard Deviation					0.0	5.4	6.2	0.0	2.8	6.7
	CV					0.0	55.55	7.3	0.0	66.65	8.07

Could not calculate LSD (% mean diff) for columns 16,19,22,25 because error mean square = 0.

Michigan State University

Weed control in sugarbeet with Rinskor

Trial ID: SB02-22 Location: SVREC Trial Year: 2022  
 Protocol ID: SB02-22 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMBEL					
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU
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	92 DA-B	@ harvest	@ harvest	@ harvest	@ harvest	@ harvest
Number of Decimals	0	0	1	0	1	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code						
1	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A	100	161	16.2	236	28.9	6819
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
2	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	170	15.8	231	28.4	6561
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.274 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
3	Loyant	0.41 fl oz/a		cot-2lf weed	A	100	151	15.5	226	25.0	5634
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.41 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
4	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	180	15.8	232	26.2	6070
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	Loyant	0.547 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
5	Loyant	0.274 fl oz/a		cot-2lf weed	A	100	156	16.1	235	27.5	6471
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.274 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
6	Loyant	0.41 fl oz/a		cot-2lf weed	A	100	155	15.8	234	26.3	6146
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.41 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
7	Loyant	0.547 fl oz/a		cot-2lf weed	A	100	156	16.2	237	24.0	5651
	Roundup PowerMax 3	25 fl oz/a		cot-2lf weed	A						
	Ethofumesate	6 fl oz/a		cot-2lf weed	A						
	Destiny HC	0.5 % v/v		cot-2lf weed	A						
	AMSOL	2.5 % v/v		cot-2lf weed	A						
	Loyant	0.547 fl oz/a		+10 d	B						
	Roundup PowerMax 3	25 fl oz/a		+10 d	B						
	Ethofumesate	6 fl oz/a		+10 d	B						
	Destiny HC	0.5 % v/v		+10 d	B						
	AMSOL	2.5 % v/v		+10 d	B						
8	Untreated					0	136	16.2	237	12.8	3098

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Michigan State University

Weed control in sugarbeet with Rinskor

Trial ID: SB02-22 Location: SVREC Trial Year: 2022  
 Protocol ID: SB02-22 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Stiles, Powell  
 Sponsor Contact:

Pest Code	AMBEL					
Crop Type, Code	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU	C, BETVU
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	92 DA-B	@ harvest	@ harvest	@ harvest	@ harvest	@ harvest
Number of Decimals	0	0	1	0	1	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
9	Loyant	0.274	fl oz/a	cot-2lf weed	A	100	164	16.3	238	25.9	6141
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.274	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
10	Loyant	0.41	fl oz/a	cot-2lf weed	A	100	164	16.1	237	28.0	6608
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.41	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
11	Loyant	0.547	fl oz/a	cot-2lf weed	A	100	146	16.0	235	24.3	5705
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	Ethofumesate	6	fl oz/a	cot-2lf weed	A						
	Destiny HC	0.5	% v/v	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Loyant	0.547	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	Ethofumesate	6	fl oz/a	+10 d	B						
	Destiny HC	0.5	% v/v	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
12	Stinger HL	1.2	fl oz/a	cot-2lf weed	A	100	161	16.0	235	27.2	6379
	Dual Magnum	1	pt/a	cot-2lf weed	A						
	Roundup PowerMax 3	25	fl oz/a	cot-2lf weed	A						
	AMSOL	2.5	% v/v	cot-2lf weed	A						
	Stinger HL	2.4	fl oz/a	+10 d	B						
	Dual Magnum	1	pt/a	+10 d	B						
	Roundup PowerMax 3	25	fl oz/a	+10 d	B						
	AMSOL	2.5	% v/v	+10 d	B						
	LSD P=.05	.					34.5	0.91	15.3	4.77	1105.3
	Standard Deviation	0.0					24.0	0.63	10.6	3.31	768.3
	CV	0.0					15.12	3.96	4.54	13.06	12.93

Could not calculate LSD (% mean diff) for columns 16,19,22,25 because error mean square = 0.