

The Ohio State University

Reviton University Exposure Trial

Trial ID: 22Reviton Cooperator Trial ID:
 Protocol ID: 22Reviton Location: Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Status: E established
 ARM Trial Created On: Mar-28-2022

Trial Location

City: South Charleston Country: USA United States
 State/Prov.: Ohio
 Postal Code: 45368

Latitude of LL Corner °: 39.85874 N
 Longitude of LL Corner °: -83.67141 W
 Altitude of LL Corner: 1087.00FT

Conducted Under GLP: No
 Conducted Under GEP: No
 None

Crop Description

Crop 1: CGLXMA Glycine max Soybean
 Entry Date: May-3-2022 Stage Scale: BBCH
 Variety: Pioneer P35T15E
 Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol
 Planting Date: Apr-28-2022 Seed Size: 2978 S/LB
 Depth: 1.5 IN Planting Rate: 165000 S/A
 Rows per Plot: 8 Planting Method: PLANTD planted
 Row Spacing: 15 IN Planting Equipment: PP plot planter
 Seed Bed: MEDTRA medium/trashy
 Soil Temperature: 43 F Soil Moisture: SLIDRY slightly dry

Pest Description

Pest 1 Type: W Code: LAMPU Lamium purpureum Entry Date: May-3-2022
 Common Name: purple deadnettle Stage Scale: BBCH
 Pest 2 Type: W Code: CARPE Cardamine pensylvanica Entry Date: May-3-2022
 Common Name: Pennsylvania bittercress Stage Scale: BBCH
 Pest 3 Type: W Code: RANAB Ranunculus abortivus Entry Date: May-3-2022
 Common Name: Smallflower buttercup Stage Scale: BBCH
 Pest 4 Type: W Code: ERYRE Erysimum repandum Entry Date: May-3-2022
 Common Name: spreading treacle mustard Stage Scale: BBCH
 Pest 5 Type: W Code: TAROF Taraxacum officinale Entry Date: May-3-2022
 Common Name: dandelion Stage Scale: BBCH
 Pest 6 Type: W Code: VERAG Veronica agrestis Entry Date: May-3-2022
 Common Name: Procumbent speedwell Stage Scale: BBCH
 Pest 7 Type: W Code: AMBTR Ambrosia trifida Entry Date: May-3-2022
 Common Name: Giant ragweed Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 200.1 FT2 Tillage Type: NOTILL no-till
 Replications: 3 Treatments: 10 Plots: 30 Study Design: RACOB L Randomized Complete Block (RCB)

Previous
 No. Crop Year
 1. CORN 2021

Soil Description

Description Name: F-9 East
 % Sand: 36 % OM: 3 Texture: SICL silty clay loam
 % Silt: 49 Soil Name: Kokomo
 % Clay: 15 Fert. Level: G good
 pH: 6.4 CEC: 17.8
 Soil Drainage: G good

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Application Description

	A
Application Date	Apr-28-2022
Appl. Start Time	9:00 AM
Appl. Stop Time	9:20 AM
Application Method	SPRAY
Application Timing	PRE
Application Placement	BROFOL
Applied By	Essman
Appl. Entry Date	May-3-2022
Air Temperature Start, Stop	42, 42 F
% Relative Humidity Start, Stop	44, 44
Wind Velocity+Dir. Start	3.5 MPH, E
Wind Velocity+Dir. Stop	3.5 MPH, E
Wind Velocity+Dir. Max	3.5 MPH, E
Wet Leaves (Y/N)	N, no
Soil Temperature	42.5 F
Soil Moisture	DRY
Soil Surface Condition	MEDTRA
% Cloud Cover	90
Next Moisture Occurred On	Apr-30-2022
Time to Next Moisture	2.0 DAY
Moisture 6 Hours after Appl.	0 IN
Moisture 1 Week after Appl.	1.1 IN

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	GLXMA, BSOY

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	LAMPU, W, BBCH
Stage Majority, Percent	69, 80
Stage Minimum, Percent	65, 10
Stage Maximum, Percent	69, 80
Diameter Average	3 IN
Diameter Minimum, Maximum	3, 4
Height Average	7 IN
Height Minimum, Maximum	6, 8
Pest 2 Code, Type, Scale	CARPE, W, BBCH
Stage Majority, Percent	69, 90
Stage Minimum, Percent	68, 10
Stage Maximum, Percent	69, 90
Diameter Average	2 IN
Diameter Minimum, Maximum	2, 3
Height Average	6 IN
Height Minimum, Maximum	4, 6
Pest 3 Code, Type, Scale	RANAB, W, BBCH
Stage Majority, Percent	63, 80
Stage Minimum, Percent	65, 10
Stage Maximum, Percent	65, 10
Diameter Average	3 IN
Diameter Minimum, Maximum	3, 4
Height Average	10 IN
Height Minimum, Maximum	8, 12
Pest 4 Code, Type, Scale	ERYRE, W, BBCH
Stage Majority, Percent	60, 90
Stage Minimum, Percent	65, 10
Stage Maximum, Percent	60, 90
Diameter Average	3 IN
Diameter Minimum, Maximum	3, 5
Height Average	7 IN
Height Minimum, Maximum	6, 10
Pest 5 Code, Type, Scale	TAROF, W, BBCH
Stage Majority, Percent	65, 80
Stage Minimum, Percent	60, 10
Stage Maximum, Percent	69, 10
Diameter Average	6 IN
Diameter Minimum, Maximum	4, 8
Height Average	3 IN
Height Minimum, Maximum	2, 4
Pest 6 Code, Type, Scale	VERAG, W, BBCH
Stage Majority, Percent	65, 80
Stage Minimum, Percent	60, 10
Stage Maximum, Percent	65, 80
Diameter Average	4 IN
Diameter Minimum, Maximum	3, 4
Height Average	1 IN
Height Minimum, Maximum	0.5, 1
Pest 7 Code, Type, Scale	AMBTR, W, BBCH
Stage Majority, Percent	12, 80
Stage Minimum, Percent	10, 20
Stage Maximum, Percent	12, 80
Diameter Average	2 IN
Diameter Minimum, Maximum	1, 2
Height Average	2 IN
Height Minimum, Maximum	1, 2

Application Equipment

	A
Appl. Equipment	6' AIXR
Equipment Type	BACCAI
Operation Pressure	44 PSI
Nozzle Model	110015
Nozzle Type	AI XR
Nozzle TradeName	TeeJet
Nozzle Tip Size, Color	015, green
Nozzle Spacing	18 IN
Boom Length	10 FT
Boom Height	20 IN
Ground Speed	3 MPH
Carrier	WATER
Water Hardness (ppm CaCO3)	250
Application Amount	15 GAL/AC
Mix Overage	25 mL
Mix Size	2 L
Spray pH	7.8
Propellant	COMCO2
Tank Mix (Y/N)	Y, yes

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	STEME	LAMPU	CARPE	AMBTR	TAROF	STEME
Pest Name	chickweed	purple deadnett	Pennsylvania bi	Giant ragweed	dandelion	chickweed
Rating Date	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-11-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1	1
Data Entry Date	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-11-2022
Days After First/Last Applic.	6, 6	6, 6	6, 6	6, 6	6, 6	13, 13
Trt-Eval Interval	6 DA-A	6 DA-A	6 DA-A	6 DA-A	6 DA-A	13 DA-A
Number of Decimals	0	0	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1*	2*	3*	4*	5*	6*
1 UTC				0b	0b	0b	0c	0b	0c
2 Reviton	0.0442	lb ai/a	A	23a	20a	27a	17b	48a	53b
2 HC MSO		1 % v/v	A						
3 Reviton	0.0442	lb ai/a	A	27a	27a	30a	30a	62a	95a
3 Roundup Powermax	0.77	lb ae/a	A						
3 N Pak AMS	2.5	% v/v	A						
3 HC MSO		1 % v/v	A						
4 Reviton	0.0442	lb ai/a	A	27a	28a	28a	30a	82a	73ab
4 Liberty	0.585	lb ae/a	A						
4 N Pak AMS	2.5	% v/v	A						
4 HC MSO		1 % v/v	A						
5 Reviton	0.0442	lb ai/a	A	30a	30a	27a	27a	80a	95a
5 Roundup Powermax	0.77	lb ae/a	A						
5 Rancor	0.5	lb ai/a	A						
5 N Pak AMS	2.5	% v/v	A						
5 HC MSO		1 % v/v	A						
6 Reviton	0.0442	lb ai/a	A	27a	27a	30a	30a	72a	53b
6 Arrow 2 EC	0.094	lb ae/a	A						
6 N Pak AMS	2.5	% v/v	A						
6 HC MSO		1 % v/v	A						
7 Reviton	0.0442	lb ai/a	A	30a	30a	30a	30a	78a	67ab
7 LO-VOL 4 2,4-D	0.475	lb ae/a	A						
7 N Pak AMS	2.5	% v/v	A						
7 HC MSO		1 % v/v	A						
8 Reviton	0.0442	lb ai/a	A	27a	35a	33a	30a	78a	93a
8 Roundup Powermax	0.77	lb ae/a	A						
8 LO-VOL 4 2,4-D	0.475	lb ae/a	A						
8 N Pak AMS	2.5	% v/v	A						
8 HC MSO		1 % v/v	A						
9 Reviton	0.0442	lb ai/a	A	30a	30a	30a	33a	57a	88a
9 Roundup Powermax	0.77	lb ae/a	A						
9 Helmet MTZ 2.1 PT									
9 Helmet	1.37	lb ai/a	A						
9 Rancor	0.328	lb ai/a	A						
9 N Pak AMS	2.5	% v/v	A						
9 HC MSO		1 % v/v	A						

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 5,10,15=2.7; 19=2.9
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 13 because error mean square = 0.
 ^Calculated from residual.

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	STEME	LAMPU	CARPE	AMBTR	TAROF	STEME		
Pest Name	chickweed	purple deadnett	Pennsylvania bi	Giant ragweed	dandelion	chickweed		
Rating Date	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-11-2022		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Number of Subsamples	1	1	1	1	1	1		
Data Entry Date	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-4-2022	May-11-2022		
Days After First/Last Applic.	6, 6	6, 6	6, 6	6, 6	6, 6	13, 13		
Trt-Eval Interval	6 DA-A	6 DA-A	6 DA-A	6 DA-A	6 DA-A	13 DA-A		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*	6*
No. Name	Rate	Unit Code						
10 Reviton	0.0442	lb ai/a A	33a	33a	37a	30a	67a	67ab
10 Gramoxone 3	0.5	lb ae/aA						
10 N Pak AMS	2.5	% v/v A						
10 NIS	0.25	% v/v A						
LSD P=.05			7.2	9.5	6.3	8.0	27.4	18.5
Standard Deviation			4.2	5.5	3.7	4.7	15.8	10.8
CV			16.47	21.2	13.49	18.21	25.93	15.76
Grand Mean			25.3	26.0	27.2	25.7	61.1	68.5
Levene's F^			0.416	0.714	0.528	0.859	0.53	1.235
Levene's Prob(F)			0.912	0.69	0.837	0.574	0.834	0.329
Rank X2			.	.	.	.	.	.
P(Rank X2)			.	.	.	.	.	.
Skewness^			-0.2081	-0.2031	-0.5119	1.1637*	-0.6473	-0.1312
Kurtosis^			-0.3876	0.1201	0.788	5.1571*	0.6911	2.4114*
Replicate F			2.489	0.329	1.552	0.153	3.567	1.803
Replicate Prob(F)			0.1111	0.7237	0.2389	0.8596	0.0523	0.1933
Treatment F			14.979	9.890	22.352	13.915	6.900	21.740
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0004	0.0001

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Pest Code	LAMPU	CARPE	AMBTR	TAROF	STEME	LAMPU
Pest Name	purple deadnett>	Pennsylvania bi>	Giant ragweed	dandelion	chickweed	purple deadnett>
Rating Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-18-2022	May-18-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1	1
Data Entry Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-20-2022	May-20-2022
Days After First/Last Applic.	13, 13	13, 13	13, 13	13, 13	20, 20	20, 20
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	20 DA-A	20 DA-A
Number of Decimals	0	0	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Appl Code	7*	8*	9*	10*	11*	12*
1 UTC				0d	0b	0b	0c	0c	0d
2 Reviton	0.0442	lb ai/a	A	53c	82a	100a	53b	53b	50bc
2 HC MSO		1% v/v	A						
3 Reviton	0.0442	lb ai/a	A	70abc	87a	90a	80a	93a	67abc
3 Roundup Powermax	0.77	lb ae/a	A						
3 N Pak AMS		2.5% v/v	A						
3 HC MSO		1% v/v	A						
4 Reviton	0.0442	lb ai/a	A	67abc	100a	77a	80a	40b	63abc
4 Liberty	0.585	lb ae/a	A						
4 N Pak AMS		2.5% v/v	A						
4 HC MSO		1% v/v	A						
5 Reviton	0.0442	lb ai/a	A	83a	100a	83a	84a	100a	93a
5 Roundup Powermax	0.77	lb ae/a	A						
5 Rancor		0.5 lb ai/a	A						
5 N Pak AMS		2.5% v/v	A						
5 HC MSO		1% v/v	A						
6 Reviton	0.0442	lb ai/a	A	58bc	97a	93a	70ab	30b	47c
6 Arrow 2 EC	0.094	lb ae/a	A						
6 N Pak AMS		2.5% v/v	A						
6 HC MSO		1% v/v	A						
7 Reviton	0.0442	lb ai/a	A	60abc	100a	100a	85a	43b	82a
7 LO-VOL 4 2,4-D	0.475	lb ae/a	A						
7 N Pak AMS		2.5% v/v	A						
7 HC MSO		1% v/v	A						
8 Reviton	0.0442	lb ai/a	A	78ab	95a	100a	83a	87a	87a
8 Roundup Powermax	0.77	lb ae/a	A						
8 LO-VOL 4 2,4-D	0.475	lb ae/a	A						
8 N Pak AMS		2.5% v/v	A						
8 HC MSO		1% v/v	A						
9 Reviton	0.0442	lb ai/a	A	75abc	100a	95a	70ab	93a	93a
9 Roundup Powermax	0.77	lb ae/a	A						
9 Helmet MTZ 2.1 PT									
9 Helmet		1.37 lb ai/a	A						
9 Rancor		0.328 lb ai/a	A						
9 N Pak AMS		2.5% v/v	A						
9 HC MSO		1% v/v	A						

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).
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 Due to missing data, the effective replicates used for mean comparisons are: col. 5,10,15=2.7; 19=2.9
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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	LAMPU	CARPE	AMBTR	TAROF	STEME	LAMPU			
Pest Name	purple deadnett>	Pennsylvania bi>	Giant ragweed	dandelion	chickweed	purple deadnett>			
Rating Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-18-2022	May-18-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-20-2022	May-20-2022			
Days After First/Last Applic.	13, 13	13, 13	13, 13	13, 13	20, 20	20, 20			
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	20 DA-A	20 DA-A			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment									
No. Name	Rate	Unit	Appl Code	7*	8*	9*	10*	11*	12*
10 Reviton	0.0442	lb ai/a	A	70 abc	100 a	87 a	70 ab	57 b	77 ab
10 Gramoxone 3	0.5	lb ae/a	A						
10 N Pak AMS	2.5	% v/v	A						
10 NIS	0.25	% v/v	A						
LSD P=.05				14.9	13.5	16.7	16.1	24.1	20.3
Standard Deviation				8.7	7.9	9.8	9.3	14.1	11.8
CV				14.13	9.15	11.82	13.78	23.55	17.98
Grand Mean				61.5	86.0	82.5	67.4	59.7	65.8
Levene's F^				0.624	1.191	0.359	0.582	0.517	0.414
Levene's Prob(F)				0.763	0.353	0.941	0.795	0.845	0.913
Rank X2				.	.	.	.	.	.
P(Rank X2)				.	.	.	.	.	.
Skewness^				0.1921	-0.139	-0.3503	0.1679	-0.5829	-0.2385
Kurtosis^				-0.191	2.8357*	-0.1124	0.1235	0.6737	-0.5517
Replicate F				0.828	1.493	4.759	1.909	0.625	0.577
Replicate Prob(F)				0.4528	0.2512	0.0219	0.1805	0.5466	0.5716
Treatment F				21.974	46.224	28.418	22.905	16.490	17.307
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type		W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code		CARPE	AMBTR	TAROF	STEME	LAMPU	AMBTR		
Pest Name		Pennsylvania bi>	Giant ragweed	dandelion	chickweed	purple deadnett>	Giant ragweed		
Rating Date		May-18-2022	May-18-2022	May-18-2022	May-24-2022	May-24-2022	May-24-2022		
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Number of Subsamples		1	1	1	1	1	1		
Data Entry Date		May-20-2022	May-20-2022	May-20-2022	May-24-2022	May-24-2022	May-24-2022		
Days After First/Last Applic.		20, 20	20, 20	20, 20	26, 26	26, 26	26, 26		
Trt-Eval Interval		20 DA-A	20 DA-A	20 DA-A	26 DA-A	26 DA-A	26 DA-A		
Number of Decimals		0	0	0	0	0	0		
Trt Treatment	Rate	Unit	Appl Code	13*	14*	15*	16*	17*	18*
No. Name									
1 UTC				0-	0d	0c	0d	0c	0c
2 Reviton	0.0442 lb ai/a	A		100-	47 abc	50 ab	33 c	60 b	43 b
2 HC MSO	1 % v/v	A							
3 Reviton	0.0442 lb ai/a	A		100-	67 ab	57 ab	93 a	93 a	70 a
3 Roundup Powermax	0.77 lb ae/a	A							
3 N Pak AMS	2.5 % v/v	A							
3 HC MSO	1 % v/v	A							
4 Reviton	0.0442 lb ai/a	A		100-	43 bc	50 ab	47 bc	63 b	37 b
4 Liberty	0.585 lb ae/a	A							
4 N Pak AMS	2.5 % v/v	A							
4 HC MSO	1 % v/v	A							
5 Reviton	0.0442 lb ai/a	A		100-	37 c	47 ab	100 a	100 a	37 b
5 Roundup Powermax	0.77 lb ae/a	A							
5 Rancor	0.5 lb ai/a	A							
5 N Pak AMS	2.5 % v/v	A							
5 HC MSO	1 % v/v	A							
6 Reviton	0.0442 lb ai/a	A		100-	70 ab	40 b	33 c	50 b	60 ab
6 Arrow 2 EC	0.094 lb ae/a	A							
6 N Pak AMS	2.5 % v/v	A							
6 HC MSO	1 % v/v	A							
7 Reviton	0.0442 lb ai/a	A		100-	77 a	53 ab	37 c	100 a	80 a
7 LO-VOL 4 2,4-D	0.475 lb ae/a	A							
7 N Pak AMS	2.5 % v/v	A							
7 HC MSO	1 % v/v	A							
8 Reviton	0.0442 lb ai/a	A		100-	70 ab	70 a	100 a	100 a	78 a
8 Roundup Powermax	0.77 lb ae/a	A							
8 LO-VOL 4 2,4-D	0.475 lb ae/a	A							
8 N Pak AMS	2.5 % v/v	A							
8 HC MSO	1 % v/v	A							
9 Reviton	0.0442 lb ai/a	A		100-	70 ab	47 ab	100 a	92 a	82 a
9 Roundup Powermax	0.77 lb ae/a	A							
9 Helmet MTZ 2.1 PT									
9 Helmet	1.37 lb ai/a	A							
9 Rancor	0.328 lb ai/a	A							
9 N Pak AMS	2.5 % v/v	A							
9 HC MSO	1 % v/v	A							

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 5,10,15=2.7; 19=2.9
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 13 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Reviton University Exposure Trial

Trial ID: 22Reviton Cooperator Trial ID:
 Protocol ID: 22Reviton Location: Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	CARPE	AMBTR	TAROF	STEME	LAMPU	AMBTR			
Pest Name	Pennsylvania bi>	Giant ragweed	dandelion	chickweed	purple deadnett>	Giant ragweed			
Rating Date	May-18-2022	May-18-2022	May-18-2022	May-24-2022	May-24-2022	May-24-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	May-20-2022	May-20-2022	May-20-2022	May-24-2022	May-24-2022	May-24-2022			
Days After First/Last Applic.	20, 20	20, 20	20, 20	26, 26	26, 26	26, 26			
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	26 DA-A	26 DA-A	26 DA-A			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	13*	14*	15*	16*	17*	18*			
No. Name	Rate	Unit	Code						
10 Reviton	0.0442	lb ai/a	A	100-	47 abc	43 b	70 ab	93 a	40 b
10 Gramoxone 3	0.5	lb ae/a	A						
10 N Pak AMS	2.5	% v/v	A						
10 NIS	0.25	% v/v	A						
LSD P=.05	.			20.4	14.3	25.4	18.1	21.5	
Standard Deviation	0.0			11.9	8.2	14.8	10.5	12.5	
CV	0.0			22.55	18.02	24.14	14.01	23.79	
Grand Mean	90.0			52.7	45.7	61.3	75.2	52.7	
Levene's F^	.			0.297	0.859	1.316	0.653	0.533	
Levene's Prob(F)	.			0.967	0.576	0.29	0.74	0.834	
Rank X2	.			.	.	.	.	.
P(Rank X2)	.			.	.	.	.	.
Skewness^	.			-0.5564	-0.5839	-0.4344	0.0432	-0.1429	
Kurtosis^	.			-0.8317	0.7315	3.4224*	0.2465	-0.2282	
Replicate F	0.000			2.523	0.347	0.426	1.000	4.160	
Replicate Prob(F)	1.0000			0.1081	0.7122	0.6597	0.3874	0.0327	
Treatment F	0.000			11.493	14.324	17.845	28.378	13.021	
Treatment Prob(F)	1.0000			0.0001	0.0001	0.0001	0.0001	0.0001	

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 * Adjusted means
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 ^Calculated from residual.

The Ohio State University

Reviton University Exposure Trial

Trial ID: 22Reviton Cooperator Trial ID:
 Protocol ID: 22Reviton Location: Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type W, Weed
 Pest Code TAROF
 Pest Name dandelion
 Rating Date May-24-2022
 Rating Type CONTRO
 Rating Unit/Min/Max %, 0, 100
 Number of Subsamples 1
 Data Entry Date May-24-2022
 Days After First/Last Applic. 26, 26
 Trt-Eval Interval 26 DA-A
 Number of Decimals 0

Trt	Treatment	Rate	Unit	Appl	Code	19*
1	UTC					0b
2	Reviton	0.0442	lb ai/a	A		47a
2	HC MSO	1%	v/v	A		
3	Reviton	0.0442	lb ai/a	A		60a
3	Roundup Powermax	0.77	lb ae/a	A		
3	N Pak AMS	2.5%	v/v	A		
3	HC MSO	1%	v/v	A		
4	Reviton	0.0442	lb ai/a	A		64a
4	Liberty	0.585	lb ae/a	A		
4	N Pak AMS	2.5%	v/v	A		
4	HC MSO	1%	v/v	A		
5	Reviton	0.0442	lb ai/a	A		57a
5	Roundup Powermax	0.77	lb ae/a	A		
5	Rancor	0.5	lb ai/a	A		
5	N Pak AMS	2.5%	v/v	A		
5	HC MSO	1%	v/v	A		
6	Reviton	0.0442	lb ai/a	A		47a
6	Arrow 2 EC	0.094	lb ae/a	A		
6	N Pak AMS	2.5%	v/v	A		
6	HC MSO	1%	v/v	A		
7	Reviton	0.0442	lb ai/a	A		43a
7	LO-VOL 4 2,4-D	0.475	lb ae/a	A		
7	N Pak AMS	2.5%	v/v	A		
7	HC MSO	1%	v/v	A		
8	Reviton	0.0442	lb ai/a	A		67a
8	Roundup Powermax	0.77	lb ae/a	A		
8	LO-VOL 4 2,4-D	0.475	lb ae/a	A		
8	N Pak AMS	2.5%	v/v	A		
8	HC MSO	1%	v/v	A		
9	Reviton	0.0442	lb ai/a	A		50a
9	Roundup Powermax	0.77	lb ae/a	A		
9	Helmet MTZ 2.1 PT					
9	Helmet	1.37	lb ai/a	A		
9	Rancor	0.328	lb ai/a	A		
9	N Pak AMS	2.5%	v/v	A		
9	HC MSO	1%	v/v	A		

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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 * Adjusted means
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 ^Calculated from residual.

The Ohio State University

Reviton University Exposure Trial

Trial ID: 22Reviton Cooperator Trial ID:
 Protocol ID: 22Reviton Location: Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type W, Weed
 Pest Code TAROF
 Pest Name dandelion
 Rating Date May-24-2022
 Rating Type CONTRO
 Rating Unit/Min/Max %, 0, 100
 Number of Subsamples 1
 Data Entry Date May-24-2022
 Days After First/Last Applic. 26, 26
 Trt-Eval Interval 26 DA-A
 Number of Decimals 0

Trt	Treatment	Rate	Unit	Appl	Code	19*
10	Reviton	0.0442	lb ai/a	A		43a
10	Gramoxone 3	0.5	lb ae/a	A		
10	N Pak AMS	2.5	% v/v	A		
10	NIS	0.25	% v/v	A		

LSD P=.05 23.8
 Standard Deviation 13.8
 CV 29.22
 Grand Mean 47.2
 Levene's F^ 0.232
 Levene's Prob(F) 0.985
 Rank X2 .
 P(Rank X2) .
 Skewness^ -0.0158
 Kurtosis^ -1.0282

Replicate F 2.127
 Replicate Prob(F) 0.1498
 Treatment F 5.440
 Treatment Prob(F) 0.0014

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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The Ohio State University

Reviton University Exposure Trial

Trial ID: 22Reviton Cooperator Trial ID:
Protocol ID: 22Reviton Location: Trial Year: 2022
Project ID: Project ID 2: Project ID 3:
Study Director: Sponsor Contact:
Investigator (Creator): Dr. Mark M. Loux

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

STEME, Stellaria media, chickweed = US

LAMPU, Lamium purpureum, purple deadnettle = US

CARPE, Cardamine pensylvanica, Pennsylvania bittercress = US

AMBTR, Ambrosia trifida, Giant ragweed = US

TAROF, Taraxacum officinale, dandelion = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent