

The Ohio State University

Reviton Soybean Burndown

Trial ID: 21REVBURN Location: Trial Year: 2021
 Protocol ID: 2021-H-US11-S Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Trial Status: E established
ARM Trial Created On: May-21-2021
Initiation Date: Jul-21-2021

Trial Location

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

Latitude of LL Corner °: 39.86108 N
Longitude of LL Corner °: -83.680656 W
Altitude of LL Corner: 1011.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Pest Description

Pest 1 Type: D **Code:** ERICA **Entry Date:** May-25-2021
Stage Scale: BBCH

Pest 2 Type: W **Code:** AMBTR Ambrosia trifida **Entry Date:** May-25-2021
Common Name: Giant ragweed **Stage Scale:** BBCH

Pest 3 Type: W **Code:** CAPBP Capsella bursa-pastoris **Entry Date:** May-25-2021
Common Name: Shepherd's purse **Stage Scale:** BBCH

Pest 4 Type: W **Code:** TAROF Taraxacum officinale **Entry Date:** May-25-2021
Common Name: Blowball **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 **Treatments:** 6 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RAOBL Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2020

Soil Description

Description Name: CR8
% Sand: 49 **% OM:** 2.5 **Texture:** L loam
% Silt: 30 **pH:** 6.2 **Soil Name:** Crosby
% Clay: 21 **CEC:** 10.6 **Fert. Level:** G good
Soil Drainage: G good

Application Description

A

Application Date May-24-2021
Appl. Start Time 10:15 AM
Appl. Stop Time 10:30 AM
Application Method SPRAY
Application Timing 14 EPP
Application Placement BROFOL
Applied By Dobbels
Appl. Entry Date May-25-2021
Air Temperature Start, Stop 83 83 F
% Relative Humidity Start, Stop 50 50
Wind Velocity+Dir. Start 3 MPH E
Wind Velocity+Dir. Stop 3 MPH E
Wind Velocity+Dir. Max 3.5 MPH E
Wet Leaves (Y/N) N no
Soil Temperature 73 F
Soil Moisture dry
Soil Surface Condition NORMAL
% Cloud Cover 80
Next Moisture Occurred On May-26-2021
Time to Next Moisture 2.0 DAY
Moisture 6 Hours after Appl. 0 IN
Moisture 1 Week after Appl. 0.79 IN

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Pest Stage At Each Application

	A	
Pest 1 Code, Type, Scale	ERICA	D BBCH
Stage Majority, Percent	19	100
Diameter Average	3	in
Diameter Minimum, Maximum	3	4
Height Average	8	in
Height Minimum, Maximum	2	10
Density Average	4	PLA/m2
Pest 2 Code, Type, Scale	AMBTR	W BBCH
Stage Majority, Percent	14	80
Stage Minimum, Percent	12	10
Stage Maximum, Percent	16	10
Diameter Average	3	in
Diameter Minimum, Maximum	3	4
Height Average	8	IN
Height Minimum, Maximum	2	8
Density Average	6	PLA/m2
Pest 3 Code, Type, Scale	CAPBP	W BBCH
Stage Majority, Percent	79	100
Diameter Average	4	IN
Diameter Minimum, Maximum	3	4
Height Average	20	IN
Height Minimum, Maximum	12	20
Density Average	3	PLA/m2
Pest 4 Code, Type, Scale	TAROF	W BBCH
Stage Majority, Percent	79	100
Diameter Average	8	IN
Diameter Minimum, Maximum	6	8
Height Average	3	IN
Height Minimum, Maximum	2	3
Density Average	1	PLA/m2

Application Equipment

	A	
Appl. Equipment	6' TT	
Equipment Type	BACCAI	
Operation Pressure	44	PSI
Nozzle Model	110015	
Nozzle Type	TT	
Nozzle Spacing	18	IN
Boom Length	6.67	FT
Boom Height	20	IN
Ground Speed	3	MPH
Carrier	WATER	
Water Hardness (ppm CaCO3)	250	
Application Amount	15	GAL/AC
Mix Size	1	L
Spray pH	7.8	
Propellant	COMCO2	

Notes

Context	Date	By	Notes
STATUS	May-21-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-25-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

Pest Type	W Weed	W Weed
Pest Code	ERICA	ERICA
Pest Name	Canada horseweed	Canada horseweed
Rating Date	Jun-4-2021	Jun-18-2021
Rating Type	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100
Number of Subsamples	1	1
Data Entry Date	Jun-4-2021	Jul-26-2021
Days After First/Last Applic.	11 11	25 25
Trt-Eval Interval	11 DA-A	25 DA-A
Number of Decimals	0	0
Trt Treatment	Other Other	Appl
No. Name	Rate Rate	Unit Code
	1*	2*

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Number of Decimals	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*
2	Reviton	2 oz/a		A	27 b	30 b
	Metribuzin	8 oz/a		A		
	HC MSO	19.2 oz/a		A		
3	Reviton	2 oz/a		A	37 b	37 b
	Roundup Powermax	22 oz/a		A		
	Metribuzin	8 oz/a		A		
	HC MSO	19.2 oz/a		A		
	AMSOL	48 oz/a		A		
4	Sharpen	1.5 oz/a		A	100 a	100 a
	Roundup Powermax	22 oz/a		A		
	HC MSO	19.2 oz/a		A		
	AMSOL	48 oz/a		A		
5	Reviton	2 oz/a		A	78 a	80 a
	Roundup Powermax	22 oz/a		A		
	Metribuzin	8 oz/a		A		
	2,4-D Ester	16 oz/a		A		
	HC MSO	19.2 oz/a		A		
	AMSOL	48 oz/a		A		
6	Gramoxone 3	2 pt/a		A	90 a	93 a
	Reviton	2 oz/a		A		
	Metribuzin	8 oz/a		A		
	HC MSO	19.2 oz/a		A		
LSD P=.05					20.0	23.0
Standard Deviation					11.0	12.6
CV					19.93	22.32
Levene's F^					0.693	0.871
Levene's Prob(F)					0.638	0.529
Skewness^					-0.9945	-0.7248
Kurtosis^					2.9396*	2.8503*
Replicate F					1.590	0.417
Replicate Prob(F)					0.2514	0.6702
Treatment F					39.334	30.333
Treatment Prob(F)					0.0001	0.0001

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent