

The Ohio State University

Soybean Showcase Residual Weed Control

Trial ID: 21SOYRES Location: Trial Year: 2021
 Protocol ID: 21soyres Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Trial Status: E established
ARM Trial Created On: Mar-31-2021 **Trial Usage/Type:** DEV Development/Registration
Initiation Date: May-23-2021 **Planned Completion Date:** Sep-1-2021

Trial Location

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

Latitude of LL Corner °: 39.85576 N
Longitude of LL Corner °: -83.66892 W
Altitude of LL Corner: 1123.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Crop Description

Crop 1: C GLXMA Glycine max Soybean
Entry Date: May-25-2021 **Stage Scale:** BBCH
Variety: Seed Consultants SC8379X
Attributes: glyphosate, dicamba resistant
Seed Size: 2750 S/LB
Planting Date: May-23-2021 **Planting Rate:** 155000 S/A
Depth: 1 IN
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 30 IN **Planting Equipment:** FE field equipment
Seed Bed: MEDIUM medium
Soil Temperature: 70 F **Soil Moisture:** DRY dry
Emergence Date: Jun-9-2021

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi* **Entry Date:** May-25-2021
Common Name: Giant foxtail **Stage Scale:** BBCH
Pest 2 Type: W **Code:** ECHCG *Echinochloa crus-galli* **Entry Date:** May-25-2021
Common Name: Common barnyard grass **Stage Scale:** BBCH
Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** Jun-25-2021
Common Name: Giant ragweed **Stage Scale:** BBCH
Pest 4 Type: W **Code:** CHEAL *Chenopodium album* **Entry Date:** Jun-25-2021
Common Name: common lambsquarters **Stage Scale:** BBCH
Pest 5 Type: W **Code:** AMATA *Amaranthus x tamariscinus* **Entry Date:** Jun-25-2021
Common Name: Common waterhemp **Stage Scale:** BBCH

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 4 ROW row
Treated Plot Area: 200.1 FT² **Treatments:** 12 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. PUMPKINS 2020

Field Prep./Maintenance:

Conventional tillage required for the trial. Soybean crop should be managed using local practices to ensure optimum soybean growth.

Conventional Tillage required. Maintain soybean crop using local practices for optimum soybean growth and yield

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Soil Description

Description Name: Entomology W-1
% Sand: 35 **% OM:** 2.3 **Texture:** L loam
% Silt: 40 **pH:** 6.6 **Soil Name:** Crosby
% Clay: 25 **CEC:** 12.7 **Fert. Level:** G good
Soil Drainage: G good

Application Description

A
Application Date May-24-2021
Appl. Start Time 10:30 AM
Appl. Stop Time 10:45 AM
Application Method SPRAY
Application Timing PRE
Application Placement BROSOI
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 MPH E
Wet Leaves (Y/N) N no
Soil Temperature 70 F
Soil Moisture DRY
Soil Surface Condition MEDTRA
% Cloud Cover 85
Next Moisture Occurred On May-24-2021
Time to Next Moisture 3.0 HR
Moisture 6 Hours after Appl. 0.5 IN
Moisture 1 Week after Appl. 1.29 IN

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale GLXMA BSOY
Days after Emergence -16

Pest Stage At Each Application

A
Pest 1 Code, Type, Scale SETFA W BBCH
Density Average 93 PLA/m2
Density Minimum, Maximum 16 144
Pest 2 Code, Type, Scale ECHCG W BBCH
Density Average 102 PLA/m2
Density Minimum, Maximum 28 152
Pest 3 Code, Type, Scale AMBTR W BBCH
Pest 4 Code, Type, Scale CHEAL W BBCH
Density Average 41 PLA/m2
Density Minimum, Maximum 4 104
Pest 5 Code, Type, Scale AMATA W BBCH
Density Average 184 PLA/m2
Density Minimum, Maximum 4 268

Application Equipment

A
Appl. Equipment 6' TTI
Equipment Type BACCAI
Operation Pressure 44 PSI
Nozzle Model 110015
Nozzle Type TTI
Nozzle Spacing 18 IN
Boom Length 6.67 FT
Boom Height 20 IN
Ground Speed 3 MPH
Carrier WATER
Application Amount 15 GAL/AC
Mix Size 1 L
Propellant COMCO2

Treatment Appl. Comments

Trt No Treatment Application Comment
 4 Scepter rate should be adjusted based on soil type or geographical rate restrictions
 6 Use correct metribuzin rate for soil type
 5 Use an Engenia approved DRA and pH buffer
 6 Use an Engenia approved DRA and pH buffer
 7 Use an Engenia approved DRA and pH buffer
 8 Use an Engenia approved DRA and pH buffer

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Notes

Context	Date	By	Notes
STATUS	Mar-31-2021	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.
STATUS	May-25-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.
STATUS	Jun-30-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Emergence Date entered.

Geographic Area/Environmental Considerations:

Plant in area with even populations of economically important weeds. E.g., Palmer amaranth, waterhemp, velvetleaf, sicklepod, common ragweed, giant ragweed, common lambsquarters, etc. Your AMVAC Technical Product Manager will identify the target weeds for your location.

Plant in area with even populations of economically important weeds. E.g., Palmer amaranth, waterhemp, velvetleaf, sicklepod, common ragweed, giant ragweed, common lambsquarters, etc. Your AMVAC Technical Product Manager will identify the target weeds for your location.

Cropping Considerations:

Conventional tillage should be used. Plant a locally significant soybean variety that has glyphosate, glufosinate, and dicamba resistance.

Use conventional tillage and apply PRE treatments to bare ground.

Use row widths and seeding rates that are standard for your soybean herbicide research program.

Data to Collect:

Phytotoxicity – general (PHYGEN, %): 14 DAT; Take photos if > 5%

Weed control (CONTRO, %): 14, 28, 42 DAT. List exact species (avoid 'annual grasses', 'Amaranthus spp.', etc).

Weather data: Daily rainfall (in), daily high/low temps (F), daily Humidity (%)
 NO YIELD DATA REQUIRED

Phytotoxicity – general (PHYGEN, %): 7, 14 DA-B; Take photos if > 5%

Weed control (CONTRO, %): 14, 28, 42 DA-B. List exact species (avoid 'annual grasses', 'Amaranthus spp.', etc).

Weather data: Daily rainfall (in), daily high/low temps (F), daily Humidity (%)
 NO YIELD DATA REQUIRED

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Pest Type				W Weed	W Weed	W Weed		
Pest Code				SETFA	ECHCG	AMBTR		
Pest Name				Giant foxtail	Common barnyard>	Giant ragweed		
Crop Type, Code	C	GLXMA	C	GLXMA				
Crop Name		Soybean		Soybean				
Rating Date	Jun-14-2021		Jun-14-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021		
Rating Type	PHYSTU		PHYLMA	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% 0		% 0 %	0 100	% 0 100	% 0		
	100		100			100		
Number of Subsamples	1		1	1	1	1		
Data Entry Date	Jun-15-2021		Jun-15-2021	Jun-15-2021	Jun-15-2021	Jun-15-2021		
Days After First/Last Applic.	21 21		21 21	21 21	21 21	21 21		
Trt-Eval Interval	21 DA-A		21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Days After Emergence	5 DE-1		5 DE-1	5 DE-1	5 DE-1	5 DE-1		
Number of Decimals	0		0	0	0	0		
Trt Treatment	Other	Other	Appl	1*	2*	3*	4*	5*
No. Name	Rate	Rate	Unit Code		dAS		dAA	
1 Boundary	1.8 pt/a		A	2 -	3 -	100 -	100 -	34 -
2 BroadAxe	25 oz/a		A	2 -	4 -	92 -	89 -	33 -
3 A23372	4.2 pt/a		A	2 -	3 -	99 -	99 -	40 -
4 Zidua Pro	6 oz/a		A	3 -	5 -	95 -	95 -	66 -
5 Sonic	6.45 oz/a		A	2 -	4 -	90 -	91 -	52 -
6 Authority Supreme	8 oz/a		A	0 -	3 -	80 -	83 -	47 -
7 Authority Edge	9 oz/a		A	2 -	2 -	86 -	92 -	74 -
8 Fierce EZ	6 oz/a		A	0 -	2 -	90 -	88 -	26 -
9 Fierce MTZ	16 oz/a		A	0 -	3 -	99 -	98 -	33 -
10 Fierce XLT	4.5 oz/a		A	2 -	4 -	82 -	82 -	34 -
11 Panther Pro	15 oz/a		A	2 -	4 -	78 -	75 -	33 -
12 Warrant Ultra	50 oz/a		A	0 -	4 -	90 -	92 -	
LSD P=.05				3.9	3.4 - 3.6	20.1	19.6 - 23.3	44.7
Standard Deviation				2.3	0.5t	11.8	13.4t	24.6
CV				192.06	27.09t	13.05	18.17t	60.83
Levene's F^				0.381	0.527	0.648	0.448	0.59
Levene's Prob(F)				0.951	0.866	0.769	0.916	0.794
Skewness^				0.7334	0.0792	0.0186	-0.4107	-0.9029
Kurtosis^				-0.5163	0.2553	-0.2599	1.3239	1.9885*
Replicate F				1.288	0.144	0.464	1.070	1.157
Replicate Prob(F)				0.2958	0.8669	0.6357	0.3620	0.3531
Treatment F				0.489	0.561	1.170	1.056	0.570
Treatment Prob(F)				0.8903	0.8393	0.3651	0.4391	0.8058

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. 3,4,6,7,10,11,14-17,20,21=2.8; 5=1.7; 13,19=2.5

* Adjusted means

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

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Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMATA	SETFA
Pest Name	common lambsqua	Common waterhemp	Giant foxtail
Crop Type, Code			C GLXMA
Crop Name			Soybean
Rating Date	Jun-14-2021	Jun-14-2021	Jun-28-2021
Rating Type	CONTRO	CONTRO	PHYSTU
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100
Number of Subsamples	1	1	1
Data Entry Date	Jun-15-2021	Jun-15-2021	Jun-30-2021
Days After First/Last Applic.	21 21	21 21	35 35
Trt-Eval Interval	21 DA-A	21 DA-A	35 DA-A
Days After Emergence	5 DE-1	5 DE-1	19 DE-1
Number of Decimals	0	0	0
Trt Treatment	6*	7*	8*
No. Name	Other Other	Appl	dAL
	Rate Rate Unit Code		dAA
1 Boundary	1.8 pt/a	A	83 -
2 BroadAxe	25 oz/a	A	100 -
3 A23372	4.2 pt/a	A	97 -
4 Zidua Pro	6 oz/a	A	100 -
5 Sonic	6.45 oz/a	A	100 -
6 Authority Supreme	8 oz/a	A	100 -
7 Authority Edge	9 oz/a	A	100 -
8 Fierce EZ	6 oz/a	A	101 -
9 Fierce MTZ	16 oz/a	A	90 -
10 Fierce XLT	4.5 oz/a	A	100 -
11 Panther Pro	15 oz/a	A	100 -
12 Warrant Ultra	50 oz/a	A	99 -
LSD P=.05			18.1
Standard Deviation			10.6
CV			10.92
Levene's F^			0.787
Levene's Prob(F)			0.65
Skewness^			-1.6741*
Kurtosis^			6.7315*
Replicate F			0.364
Replicate Prob(F)			0.6993
Treatment F			0.737
Treatment Prob(F)			0.6928

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	SETLU	AMBTR	CHEAL	AMATA			
Pest Name	Common barnyard>	foxtail, yellow	Giant ragweed	common lambsqua>	Common waterhemp			
Crop Type, Code								
Crop Name								
Rating Date	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jun-30-2021	Jun-30-2021	Jun-30-2021	Jun-30-2021	Jun-30-2021			
Days After First/Last Applic.	35 35	35 35	35 35	35 35	35 35			
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A			
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
1 Boundary	1.8 pt/a	A		87 -	69 -	37 -	77 -	90 -
2 BroadAxe	25 oz/a	A		90 -	57 -	23 -	100 -	97 -
3 A23372	4.2 pt/a	A		87 -	79 -	27 -	83 -	87 -
4 Zidua Pro	6 oz/a	A		85 -	62 -	11 -	100 -	100 -
5 Sonic	6.45 oz/a	A		83 -	62 -	57 -	100 -	82 -
6 Authority Supreme	8 oz/a	A		83 -	47 -	33 -	100 -	100 -
7 Authority Edge	9 oz/a	A		83 -	30 -	42 -	100 -	100 -
8 Fierce EZ	6 oz/a	A		70 -	37 -	26 -	101 -	98 -
9 Fierce MTZ	16 oz/a	A		77 -	57 -	17 -	77 -	87 -
10 Fierce XLT	4.5 oz/a	A		73 -	47 -	1 -	100 -	90 -
11 Panther Pro	15 oz/a	A		70 -	50 -	17 -	100 -	100 -
12 Warrant Ultra	50 oz/a	A		82 -	63 -	31 -	97 -	100 -
LSD P=.05				19.1	39.1	43.5	34.5	20.5
Standard Deviation				11.2	23.1	25.3	20.3	12.0
CV				13.83	42.09	86.1	21.55	12.81
Levene's F^				0.26	0.756	1.107	0.724	0.474
Levene's Prob(F)				0.988	0.678	0.407	0.705	0.90
Skewness^				-0.7267	-0.2587	-0.499	-1.4452*	-0.6346
Kurtosis^				0.5746	0.8471	-0.1401	3.5384*	0.4026
Replicate F				1.388	1.642	3.527	0.051	1.436
Replicate Prob(F)				0.2726	0.2164	0.0523	0.9501	0.2615
Treatment F				0.986	1.059	0.686	0.654	0.923
Treatment Prob(F)				0.4894	0.4338	0.7344	0.7635	0.5383

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	SETLU	AMBTR	CHEAL			
Pest Name	Giant foxtail	Common foxtail, yellow barnyard>	Giant ragweed	common lambsqua>				
Crop Type, Code								
Crop Name								
Rating Date	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jul-13-2021	Jul-13-2021	Jul-13-2021	Jul-13-2021	Jul-13-2021			
Days After First/Last Applic.	49 49	49 49	49 49	49 49	49 49			
Trt-Eval Interval	49 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	16* dAA	17*	18*	19*	20*
1 Boundary	1.8 pt/a		A	95 -	63 -	67	23 -	73 -
2 BroadAxe	25 oz/a		A	92 -	47 -	50 -	10 -	100 -
3 A23372	4.2 pt/a		A	95 -	60 -	77 -	23 -	73 -
4 Zidua Pro	6 oz/a		A	95 -	50 -	63 -	24 -	100 -
5 Sonic	6.45 oz/a		A	93 -	47 -	57 -	50 -	100 -
6 Authority Supreme	8 oz/a		A	91 -	33 -	43 -	37 -	100 -
7 Authority Edge	9 oz/a		A	91 -	36 -	23 -	39 -	100 -
8 Fierce EZ	6 oz/a		A	87 -	46 -	33 -	29 -	100 -
9 Fierce MTZ	16 oz/a		A	84 -	50 -	53 -	3 -	73 -
10 Fierce XLT	4.5 oz/a		A	87 -	33 -	47 -	14 -	100 -
11 Panther Pro	15 oz/a		A	84 -	33 -	50 -	17 -	100 -
12 Warrant Ultra	50 oz/a		A	82 -	47 -	50 -	24 -	96 -
LSD P=.05				13.5 - 13.6	36.7	41.3	28.2	43.2
Standard Deviation				7.5t	21.6	24.3	16.3	25.3
CV				10.48t	46.99	48.8	64.15	27.38
Levene's F^				0.574	0.684	0.55	0.675	0.718
Levene's Prob(F)				0.829	0.74	0.836	0.745	0.71
Skewness^				-0.9698*	-0.6197	-0.573	-0.6553	-1.4305*
Kurtosis^				3.0405*	2.3126*	1.945*	0.7295	3.2549*
Replicate F				6.794	1.744	1.504	3.162	0.004
Replicate Prob(F)				0.0056	0.2004	0.2462	0.0680	0.9962
Treatment F				1.170	0.647	1.014	1.747	0.648
Treatment Prob(F)				0.3653	0.7692	0.4656	0.1460	0.7682

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Pest Type W Weed
 Pest Code AMATA
 Pest Name Common waterhemp
 Crop Type, Code
 Crop Name
 Rating Date Jul-12-2021
 Rating Type CONTRO
 Rating Unit/Min/Max % 0 100
 Number of Subsamples 1
 Data Entry Date Jul-13-2021
 Days After First/Last Applic. 49 49
 Trt-Eval Interval 49 DA-A
 Days After Emergence 33 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	21* dAA
1	Boundary	1.8 pt/a		A	96 -
2	BroadAxe	25 oz/a		A	99 -
3	A23372	4.2 pt/a		A	82 -
4	Zidua Pro	6 oz/a		A	95 -
5	Sonic	6.45 oz/a		A	81 -
6	Authority Supreme	8 oz/a		A	99 -
7	Authority Edge	9 oz/a		A	97 -
8	Fierce EZ	6 oz/a		A	88 -
9	Fierce MTZ	16 oz/a		A	95 -
10	Fierce XLT	4.5 oz/a		A	78 -
11	Panther Pro	15 oz/a		A	69 -
12	Warrant Ultra	50 oz/a		A	100 -
LSD P=.05					21.5 - 29.7
Standard Deviation					16.2t
CV					21.82t
Levene's F^					0.43
Levene's Prob(F)					0.926
Skewness^					-0.0143
Kurtosis^					-0.6493
Replicate F					0.087
Replicate Prob(F)					0.9168
Treatment F					1.313
Treatment Prob(F)					0.2870

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Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US

ECHCG, Echinochloa crus-galli, Common barnyard grass = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

AMATA, Amaranthus x tamariscinus, Common waterhemp = US

SETLU, Setaria pumila, foxtail, yellow = US

Crop Type, Code

C = EPPO species (Bayer) codes

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

PHYSTU = phytotoxicity - stunting

PHYLMA = phytotoxicity - leaf malformation

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent