

Purdue Weed Science

Valent Actives in a Enlist Duo System - Reduced Tillage

Trial ID: 20S-MGS-SOY-16
Protocol ID: 20S-MGS-SOY-16
Project ID:

Location: Lafayette, IN
Investigator (Creator): Eric Ott
Study Director:
Sponsor Contact:

Trial Year: 2020

General Trial Information

Investigator: Eric Ott

Trial Status: E established Trial Reliability: 1 usable data

ARM Trial Created On: 6/5/2020

Initiation Date: 6/5/2020

Trial Location

City: Lafayette Country: USA United States
State/Prov.: Indiana

Latitude of LL Corner °: 40.269992 N

Longitude of LL Corner °: -86.8821137 W

Conducted Under GLP: No

Conducted Under GEP: No

Study Rules: HERB-PREE

No.	Guideline	Discipline	Description
1.	ADM-C-PUB	CO	Confidentiality - Public Trial - No Secrecy Agreement Required

Objectives:

To compare Valent PREE and POST actives in a program approach in a Enlist Duo cropping system. Fierce EZ (6 fl oz/A) and Fierce MTZ (1 pt/A) will be compared to Authority MTZ (11 oz/A) and Zidua Pro (6.0 fl oz/A). Perpetuo (6 fl oz/A) will be compared to Anthem Maxx @ 2.5 fl oz/A. Measures of success are weed control at 21, 42 & 56 DAP with acceptable crop response.

Conclusions:

Enlist
See test subject list
Roundup Ready
See test subject list

Role: INVEST investigator

Investigator: Eric Ott

Crop Description

Crop 1: C GLXM05 Glycine max GMO Soybean, Glyph./2,4-D Tol. BBCH Scale: BSOY

Entry Date: 10/16/2020

Stage Scale: BBCH

Variety: Stine 32EA12

Seed Size: 150 TSWG

Planting Date: 6/25/2020

Planting Rate: 157000 S/A

Depth: 4.5 cm

Rows per Plot: 4

Planting Method: PLANTD planted

Row Spacing: 30 IN

Planting Equipment: PP plot planter

Soil Temperature: 89 F

Soil Moisture: NORMAL normal, adequate

Emergence Date: 7/3/2020

Pest Description

Pest 1 Type: W Code: AMATA Amaranthus tamariscinus

Common Name: Common waterhemp

Stage Scale: BBCH

Pest 2 Type: W Code: ERICA Erigeron canadensis

Common Name: Canada horseweed

Entry Date: 10/16/2020

Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT

Treated Plot Length: 30 FT

Treated Plot Area: 200.1 FT² Treatments: 9 Tillage Type: NOTILL no-till
Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)**Soil Description**

Description Name: Crosby-Miami Silt

% Sand: 27 % OM: 2.4 Texture: SIL silt loam

% Silt: 52 pH: 7.1

% Clay: 21 CEC: 9.3

Application Description

	A	B
Application Date	6/5/2020	7/21/2020
Appl. Start Time	11:15 AM	12:00 PM
Appl. Stop Time	11:45 AM	12:25 PM
Interval to Prev. Appl.		46 DAYS
Application Method	SPRAY	SPRAY
Application Timing	PREPOS	POSPOS
Application Placement	BROADC	BROADC
Applied By	J. Haarmann	B. Mansfield
Appl. Entry Date	10/16/2020	10/16/2020
Air Temperature Start, Stop	81, 81 F	86, 86 F
% Relative Humidity Start, Stop	64, 64	66, 66
Wind Velocity+Dir. Start	2 MPH, W	7 MPH, ESE
Wind Velocity+Dir. Stop	2.5 MPH, W	5.5 MPH, ESE
Wind Velocity+Dir. Max	2.5 MPH, W	8 MPH, ESE
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	80 F	88 F
Soil Moisture	NORMAL	NORMAL
% Cloud Cover	35	100

Protocol Application Directions:

One burndown application fb one postemergence application, except for Enlist Do u treatment, which is two postemergence applications.

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXM05, BSOY	GLXM05, BSOY
Days after Emergence	-28	18
Stage Majority, Percent		14, 80
Stage Minimum, Percent		13, 10
Stage Maximum, Percent		15, 10
Height Average		5 IN
Height Minimum, Maximum		4, 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	AMATA, W, BBCH	AMATA, W, BBCH
Stage Majority, Percent	16, 90	18, 85
Stage Minimum, Percent	11, 5	14, 15
Stage Maximum, Percent	18, 5	18, 85
Height Average	2 IN	8 IN
Height Minimum, Maximum	0.5, 3.5	1, 16
Density Average	35 FT ²	15 FT ²
Pest 2 Code, Type, Scale	ERICA, W, BBCH	ERICA, W, BBCH
Stage Majority, Percent	15, -	19, -
Stage Minimum, Percent	19, -	19, -
Stage Maximum, Percent	19, -	19, -
Height Average	3.5 IN	7 IN
Height Minimum, Maximum	1, 5	6, 8
Density Average	7 FT ²	3 FT ²

Application Equipment		
	A	B
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR
Nozzle Model	TT110015	TT110015
Nozzle Type	TEEJTU	TEEJTU
Nozzle Spacing	15 IN	15 IN
Nozzles/Row	8	8
Boom Length	6.67 FT	6.67 FT
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Overage	0 mL	0 mL
Mix Size	1119 mL	1119 mL
Propellant	COMCO2	COMCO2

Notes			
Context	Date	By	Notes
GENTRI	10/16/2020	Dr. Bill Johnson	Trial was planted on June 8th, but due to dry conditions and poor seed to soil contact trial was replanted on June 25th.

Instructions:

1. Please include all treatments in test, even if they do not fit the area in which the test is conducted.
2. Make RPM application when weeds are 2" in the Fierce trt (4" if the weed is G. Rag.).
3. Soybean row spacing should be 30".
4. Select Max does not need to be applied if v. corn is not in test area.

Data to Collect:
Efficacy: 21, 42 and 56 days after pree application. Crop tolerance: 21, 42 and 56 days after pree application.

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Pest Type	C, GLXM05	W, Weed AMATA	W, Weed ERICA	C, GLXM05		
Pest Code						
Pest Scientific Name		Amaranthus x ta>	Erigeron canad>			
Pest Name		Common waterhemp	Canada horseweed			
Crop Type, Code	C, GLXM05	C, GLXM05	C, GLXM05	C, GLXM05		
BBCH Scale	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max GMO	Glycine max GMO	Glycine max GMO	Glycine max GMO		
Crop Name	Soybean, Glyph.>	Soybean, Glyph.>	Soybean, Glyph.>	Soybean, Glyph.>		
Rating Date	7/21/2020	7/21/2020	7/21/2020	8/11/2020		
Part Rated	PLANT, C	PLANT, P	PLANT, P	PLANT, C		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Number of Subsamples	1	1	1	1		
Data Entry Date	10/16/2020	10/16/2020	10/16/2020	10/16/2020		
Rating Timing	0 DAB	0 DAB	0 DAB	21 DAT		
Days After First/Last Applic.	46, 46	46, 46	46, 46	67, 21		
Plant-Eval Interval	26 DP-1	26 DP-1	26 DP-1	47 DP-1		
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	39 DE-1		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	1	2	3	4
1 UNTREATED CHECK			0.0	0.0	0.0	0.0
2 ENLIST ONE	1 PT/A	A	0.0 -	82.5 -	76.3 -	0.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
INDUCE	0.25 % V/V	B				
AMSOL	1.5 LB/A	B				
3 ENLIST ONE	1 PT/A	A	0.0 -	72.5 -	77.5 -	0.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
PERPETUO	6 FL OZ/A	B				
INDUCE	0.25 % V/V	B				
AMSOL	1.5 LB/A	B				
4 ENLIST ONE	1 PT/A	A	0.0 -	95.0 -	75.0 -	0.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
FIERCE EZ (2065)	6 FL OZ/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
INDUCE	0.25 % V/V	B				
AMSOL	1.5 LB/A	B				
5 ENLIST ONE	1 PT/A	A	0.0 -	93.8 -	72.5 -	0.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
FIERCE MTZ SC (2030)	1 PT/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
INDUCE	0.25 % V/V	B				
AMSOL	1.5 LB/A	B				
6 ENLIST ONE	1 PT/A	A	0.0 -	92.5 -	76.3 -	0.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
AUTHORITY MTZ	11 OZ WT/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
ANTHEM MAXX	2.5 FL OZ/A	B				
AMSOL	1.5 LB/A	B				
INDUCE	0.25 % V/V	B				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,4,7,8,10,11,12 because error mean square = 0.
 ^Calculated from residual.

Pest Type			W, Weed	W, Weed			
Pest Code			AMATA	ERICA			
Pest Scientific Name			Amaranthus x ta>	Erigeron canad>			
Pest Name			Common waterhemp	Canada horseweed			
Crop Type, Code	C, GLXM05		C, GLXM05	C, GLXM05			
BBCH Scale	BSOY		BSOY	BSOY			
Crop Scientific Name	Glycine max GMO		Glycine max GMO	Glycine max GMO			
Crop Name	Soybean, Glyph.>		Soybean, Glyph.>	Soybean, Glyph.>			
Rating Date	7/21/2020		7/21/2020	8/11/2020			
Part Rated	PLANT, C		PLANT, P	PLANT, C			
Rating Type	PHYGEN		CONTRO	PHYGEN			
Rating Unit/Min/Max	%, 0, 100		%, 0, 100	%, 0, 100			
Number of Subsamples	1		1	1			
Data Entry Date	10/16/2020		10/16/2020	10/16/2020			
Rating Timing	0 DAB		0 DAB	21 DAT			
Days After First/Last Applic.	46, 46		46, 46	67, 21			
Plant-Eval Interval	26 DP-1		26 DP-1	47 DP-1			
Days After Emergence	18 DE-1		18 DE-1	39 DE-1			
Trt No.	Treatment Name	Rate Unit	Appl Code	1	2	3	4
7	ENLIST ONE	1 PT/A	A	0.0 -	76.3 -	87.5 -	0.0 -
	ROUNDUP PWR MAX(S)	1 QT/A	A				
	ZIDUA PRO	6 FL OZ/A	A				
	INDUCE	0.25 % V/V	A				
	ENLIST ONE	1 PT/A	B				
	ROUNDUP PWR MAX(S)	1 QT/A	B				
	PERPETUO	6 FL OZ/A	B				
	AMSOL	1.5 LB/A	B				
	INDUCE	0.25 % V/V	B				
8	ENLIST ONE	1 PT/A	A	0.0 -	92.5 -	77.5 -	0.0 -
	ROUNDUP PWR MAX(S)	1 QT/A	A				
	FIERCE EZ (2065)	6 FL OZ/A	A				
	INDUCE	0.25 % V/V	A				
	ENLIST ONE	1 PT/A	B				
	ROUNDUP PWR MAX(S)	1 QT/A	B				
	PERPETUO	6 FL OZ/A	B				
	AMSOL	1.5 LB/A	B				
	INDUCE	0.25 % V/V	B				
9	ENLIST ONE	1 PT/A	A	0.0 -	93.8 -	81.3 -	0.0 -
	ROUNDUP PWR MAX(S)	1 QT/A	A				
	FIERCE MTZ SC (2030)	1 PT/A	A				
	INDUCE	0.25 % V/V	A				
	ENLIST ONE	1 PT/A	B				
	ROUNDUP PWR MAX(S)	1 QT/A	B				
	PERPETUO	6 FL OZ/A	B				
	AMSOL	1.5 LB/A	B				
	INDUCE	0.25 % V/V	B				
LSD P= .05					19.10	13.58	
Standard Deviation		0.00			12.99	9.24	0.00
CV		0.0			14.87	11.85	0.0
Grand Mean		0.00			87.34	77.97	0.00
Levene's F^					2.541	0.432	
Levene's Prob(F)					0.042*	0.872	
Rank X2					.	.	.
P(Rank X2)					.	.	.
Skewness^					-0.5616	0.3611	
Kurtosis^					0.826	-0.2511	
Replicate F		0.000			1.413	4.356	0.000
Replicate Prob(F)		1.0000			0.2669	0.0155	1.0000
Treatment F		0.000			1.900	0.983	0.000
Treatment Prob(F)		1.0000			0.1205	0.4697	1.0000

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Trt	Treatment No. Name	Rate	Unit	Appl Code	5	6	7	8
	1	UNTREATED CHECK			0.0	0.0	0.0	0.0
	2	ENLIST ONE	1 PT/A	A	93.8 -	94.5 b	0.0 -	100.0 -
		ROUNDUP PWR MAX(S)	1 QT/A	A				
		INDUCE	0.25 % V/V	A				
		ENLIST ONE	1 PT/A	B				
		ROUNDUP PWR MAX(S)	1 QT/A	B				
		INDUCE	0.25 % V/V	B				
		AMSOL	1.5 LB/A	B				
	3	ENLIST ONE	1 PT/A	A	92.5 -	93.8 bc	0.0 -	100.0 -
		ROUNDUP PWR MAX(S)	1 QT/A	A				
		INDUCE	0.25 % V/V	A				
		ENLIST ONE	1 PT/A	B				
		ROUNDUP PWR MAX(S)	1 QT/A	B				
		PERPETUO	6 FL OZ/A	B				
		INDUCE	0.25 % V/V	B				
		AMSOL	1.5 LB/A	B				
	4	ENLIST ONE	1 PT/A	A	95.0 -	95.0 b	0.0 -	100.0 -
		ROUNDUP PWR MAX(S)	1 QT/A	A				
		FIERCE EZ (2065)	6 FL OZ/A	A				
		INDUCE	0.25 % V/V	A				
		ENLIST ONE	1 PT/A	B				
		ROUNDUP PWR MAX(S)	1 QT/A	B				
		INDUCE	0.25 % V/V	B				
		AMSOL	1.5 LB/A	B				
	5	ENLIST ONE	1 PT/A	A	96.3 -	95.5 ab	0.0 -	100.0 -
		ROUNDUP PWR MAX(S)	1 QT/A	A				
		FIERCE MTZ SC (2030)	1 PT/A	A				
		INDUCE	0.25 % V/V	A				
		ENLIST ONE	1 PT/A	B				
		ROUNDUP PWR MAX(S)	1 QT/A	B				
		INDUCE	0.25 % V/V	B				
		AMSOL	1.5 LB/A	B				
	6	ENLIST ONE	1 PT/A	A	93.8 -	93.0 bc	0.0 -	100.0 -
		ROUNDUP PWR MAX(S)	1 QT/A	A				
		AUTHORITY MTZ	11 OZ WT/A	A				
		INDUCE	0.25 % V/V	A				
		ENLIST ONE	1 PT/A	B				
		ROUNDUP PWR MAX(S)	1 QT/A	B				
		ANTHEM MAXX	2.5 FL OZ/A	B				
		AMSOL	1.5 LB/A	B				
		INDUCE	0.25 % V/V	B				

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Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 1,4,7,8,10,11,12 because error mean square = 0.
^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	AMATA	ERICA	AMATA	AMATA		
Pest Scientific Name	Amaranthus x ta>	Erigeron canad>	Amaranthus x ta>	Amaranthus x ta>		
Pest Name	Common waterhemp	Canada horseweed	Common waterhemp	Common waterhemp		
Crop Type, Code	C, GLXM05	C, GLXM05	C, GLXM05	C, GLXM05		
BBCH Scale	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max GMO	Glycine max GMO	Glycine max GMO	Glycine max GMO		
Crop Name	Soybean, Glyph.>	Soybean, Glyph.>	Soybean, Glyph.>	Soybean, Glyph.>		
Rating Date	8/11/2020	8/11/2020	9/1/2020	9/1/2020		
Part Rated	PLANT, P	PLANT, P	PLANT, C	PLANT, P		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Number of Subsamples	1	1	1	1		
Data Entry Date	10/16/2020	10/16/2020	10/16/2020	10/16/2020		
Rating Timing	21 DAT	21 DAT	42 DAT	42 DAT		
Days After First/Last Applic.	67, 21	67, 21	88, 42	88, 42		
Plant-Eval Interval	47 DP-1	47 DP-1	68 DP-1	68 DP-1		
Days After Emergence	39 DE-1	39 DE-1	60 DE-1	60 DE-1		
Trt Treatment No. Name	Rate	Appl Code	5	6	7	8
7 ENLIST ONE	1 PT/A	A	96.8 -	98.8 a	0.0 -	100.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
ZIDUA PRO	6 FL OZ/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
PERPETUO	6 FL OZ/A	B				
AMSOL	1.5 LB/A	B				
INDUCE	0.25 % V/V	B				
8 ENLIST ONE	1 PT/A	A	95.0 -	94.5 b	0.0 -	100.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
FIERCE EZ (2065)	6 FL OZ/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
PERPETUO	6 FL OZ/A	B				
AMSOL	1.5 LB/A	B				
INDUCE	0.25 % V/V	B				
9 ENLIST ONE	1 PT/A	A	93.8 -	91.0 c	0.0 -	100.0 -
ROUNDUP PWR MAX(S)	1 QT/A	A				
FIERCE MTZ SC (2030)	1 PT/A	A				
INDUCE	0.25 % V/V	A				
ENLIST ONE	1 PT/A	B				
ROUNDUP PWR MAX(S)	1 QT/A	B				
PERPETUO	6 FL OZ/A	B				
AMSOL	1.5 LB/A	B				
INDUCE	0.25 % V/V	B				
LSD P=.05			3.30	3.35	.	.
Standard Deviation			2.25	2.28	0.00	0.00
CV			2.37	2.41	0.0	0.0
Grand Mean			94.59	94.50	0.00	100.00
Levene's F^			0.48	2.222	.	.
Levene's Prob(F)			0.839	0.068	.	.
Rank X2			.	.	.	.
P(Rank X2)			.	.	.	.
Skewness^			0.4204	-0.5675	.	.
Kurtosis^			0.2821	0.6413	.	.
Replicate F			0.717	3.156	0.000	0.000
Replicate Prob(F)			0.5530	0.0462	1.0000	1.0000
Treatment F			1.614	3.776	0.000	0.000
Treatment Prob(F)			0.1862	0.0084	1.0000	1.0000

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Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 1,4,7,8,10,11,12 because error mean square = 0.
^Calculated from residual.

Trt	Treatment No. Name	Rate	Appl Code	9	10	11	12
	1	UNTREATED CHECK		0.0	0.0	0.0	0.0
	2	ENLIST ONE ROUNDUP PWR MAX(S) INDUCE ENLIST ONE ROUNDUP PWR MAX(S) INDUCE AMSOL	A A A B B B B	97.5 -	0.0 -	100.0 -	100.0 -
	3	ENLIST ONE ROUNDUP PWR MAX(S) INDUCE ENLIST ONE ROUNDUP PWR MAX(S) PERPETUO INDUCE AMSOL	A A A B B B B	97.5 -	0.0 -	100.0 -	100.0 -
	4	ENLIST ONE ROUNDUP PWR MAX(S) FIERCE EZ (2065) INDUCE ENLIST ONE ROUNDUP PWR MAX(S) INDUCE AMSOL	A A A A B B B B	97.5 -	0.0 -	100.0 -	100.0 -
	5	ENLIST ONE ROUNDUP PWR MAX(S) FIERCE MTZ SC (2030) INDUCE ENLIST ONE ROUNDUP PWR MAX(S) INDUCE AMSOL	A A A A B B B B	96.3 -	0.0 -	100.0 -	100.0 -
	6	ENLIST ONE ROUNDUP PWR MAX(S) AUTHORITY MTZ INDUCE ENLIST ONE ROUNDUP PWR MAX(S) ANTHEM MAXX AMSOL INDUCE	A A A A B B B B B	96.3 -	0.0 -	100.0 -	100.0 -

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 1,4,7,8,10,11,12 because error mean square = 0.
^Calculated from residual.

Trt	Treatment No. Name	Rate	Appl Code	9	10	11	12
	7 ENLIST ONE	1 PT/A	A	100.0 -	0.0 -	100.0 -	100.0 -
	ROUNDUP PWR MAX(S)	1 QT/A	A				
	ZIDUA PRO	6 FL OZ/A	A				
	INDUCE	0.25 % V/V	A				
	ENLIST ONE	1 PT/A	B				
	ROUNDUP PWR MAX(S)	1 QT/A	B				
	PERPETUO	6 FL OZ/A	B				
	AMSOL	1.5 LB/A	B				
	INDUCE	0.25 % V/V	B				
	8 ENLIST ONE	1 PT/A	A	98.8 -	0.0 -	100.0 -	100.0 -
	ROUNDUP PWR MAX(S)	1 QT/A	A				
	FIERCE EZ (2065)	6 FL OZ/A	A				
	INDUCE	0.25 % V/V	A				
	ENLIST ONE	1 PT/A	B				
	ROUNDUP PWR MAX(S)	1 QT/A	B				
	PERPETUO	6 FL OZ/A	B				
	AMSOL	1.5 LB/A	B				
	INDUCE	0.25 % V/V	B				
	9 ENLIST ONE	1 PT/A	A	97.5 -	0.0 -	100.0 -	100.0 -
	ROUNDUP PWR MAX(S)	1 QT/A	A				
	FIERCE MTZ SC (2030)	1 PT/A	A				
	INDUCE	0.25 % V/V	A				
	ENLIST ONE	1 PT/A	B				
	ROUNDUP PWR MAX(S)	1 QT/A	B				
	PERPETUO	6 FL OZ/A	B				
	AMSOL	1.5 LB/A	B				
	INDUCE	0.25 % V/V	B				
	LSD P=.05			3.17	.	.	.
	Standard Deviation			2.16	0.00	0.00	0.00
	CV			2.21	0.0	0.0	0.0
	Grand Mean			97.66	0.00	100.00	100.00
	Levene's F^			0.597	.	.	.
	Levene's Prob(F)			0.752	.	.	.
	Rank X2			.	.	.	.
	P(Rank X2)			.	.	.	.
	Skewness^			-0.3516	.	.	.
	Kurtosis^			-0.5491	.	.	.
	Replicate F			4.200	0.000	0.000	0.000
	Replicate Prob(F)			0.0178	1.0000	1.0000	1.0000
	Treatment F			1.320	0.000	0.000	0.000
	Treatment Prob(F)			0.2896	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 1,4,7,8,10,11,12 because error mean square = 0.
^Calculated from residual.

Purdue Weed Science

Valent Actives in a Enlist Duo System - Reduced Tillage

Location: Lafayette, IN Trial Year: 2020
 Investigator (Creator): Eric Ott
 Study Director:
 Sponsor Contact:

Trial ID: 20S-MGS-SOY-16
 Protocol ID: 20S-MGS-SOY-16
 Project ID:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMATA, Amaranthus x tamariscinus, Common waterhemp = US

ERICA, Erigeron canadensis, Canada horseweed = US

Crop Type Code

C = EPP0 species (Bayer) codes

Part Rated

PLANT = plant

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

Plant-Eval Interval

26 DP-1 = 1 GLXM05 6/25/2020

47 DP-1 = 1 GLXM05 6/25/2020

68 DP-1 = 1 GLXM05 6/25/2020

82 DP-1 = 1 GLXM05 6/25/2020