

The Ohio State University

Fall application of KFD-721/Soybean/Weeds

Trial ID: 23UPLFALLSOY1
 Protocol ID: H22US-027-ERY-001 Location: Ohio
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact: Ryan Henry
 Investigator:

Cooperator Trial ID:
 Trial Year: 2022

Role: SPONSR sponsor
 Sponsor: Ryan Henry Title: Tech. Development Mgr. - Herbicides
 Organization: UPL NA Inc.
 Address 1: 1332 Bluff Pointe Way Mobile No.: 308-520-2301
 Country: USA United States E-mail: ryan.henry@upl-ltd.com
 City: Fort Wayne State/Prov: IN Postal Code: 46845

Crop Description

Crop 1: C	GLXMA Glycine max	Soybean	BBCH Scale: BSOY
	Entry Date: May-3-2023	Stage Scale: BBCH	
	Variety: 28A65E		
	Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol		
	Planting Date: Apr-27-2023	Seed Size: 2441 S/LB	
	Depth: 1 IN	Planting Rate: 140000 S/A	
	Rows per Plot: 8	Planting Method: PLANTD planted	
	Row Spacing: 15 IN	Planting Equipment: FE field equipment	
	Soil Temperature: 50 F	Seed Bed: MEDIUM medium	
	Emergence Date: May-8-2023	Soil Moisture: NORMAL normal, adequate	
	Harvest Date: Oct-11-2023	Harvest Equipment: Kincaid 8XP	
	Moisture Meter: Harvest Master	Harvested Width: 6.25 FT	
	% Standard Moisture: 13	Harvested Length: 30 FT	
	Weighing Equipment: Harvest Master HM800		

Pest Description

Pest 1 Type: W	Code: STEME Stellaria media	Entry Date: Nov-18-2022
	Common Name: chickweed	Stage Scale: BBCH
Pest 2 Type: W	Code: LAMPU Lamium purpureum	Entry Date: Nov-18-2022
	Common Name: purple deadnettle	Stage Scale: BBCH
Pest 3 Type: W	Code: CARPE Cardamine pensylvanica	Entry Date: Nov-18-2022
	Common Name: Pennsylvania bittercress	Stage Scale: BBCH
Pest 4 Type: W	Code: SENGL Packera glabella	Entry Date: Nov-18-2022
	Common Name: Cressleaf groundsel	Stage Scale: BBCH
Pest 5 Type: W	Code: RANAB Ranunculus abortivus	Entry Date: May-3-2023
	Common Name: Smallflower buttercup	Stage Scale: BBCH
Pest 6 Type: W	Code: ERYRE Erysimum repandum	Entry Date: May-3-2023
	Common Name: spreading treacle mustard	Stage Scale: BBCH
Pest 7 Type: W	Code: ERICA Erigeron canadensis	Entry Date: May-3-2023
	Common Name: mare's-tail	Stage Scale: BBCH
Pest 8 Type: W	Code: POAAN Poa annua	Entry Date: May-3-2023
	Common Name: Annual bluegrass	Stage Scale: BBCH
Pest 9 Type: W	Code: SETFA Setaria faberi	Entry Date: Jun-8-2023
	Common Name: Giant foxtail	Stage Scale: BBCH
Pest10 Type: W	Code: SETPU Setaria helvola	Entry Date: Jun-8-2023
	Common Name: yellow foxtail	Stage Scale: BBCH
Pest11 Type: W	Code: AMBTR Ambrosia trifida	Entry Date: Jun-8-2023
	Common Name: Giant ragweed	Stage Scale: BBCH
Pest12 Type: W	Code: AMBEL Ambrosia artemisiifolia	Entry Date: Jun-8-2023
	Common Name: Common ragweed	Stage Scale: BBCH
Pest13 Type: W	Code: CHEAL Chenopodium album	Entry Date: Jun-8-2023
	Common Name: common lambsquarters	Stage Scale: BBCH
Pest14 Type: W	Code: POLPY Persicaria pensylvanica	Entry Date: Jun-8-2023
	Common Name: annual smartweed	Stage Scale: BBCH
Pest15 Type: W	Code: AMARE Amaranthus retroflexus	Entry Date: Jun-21-2023
	Common Name: Redroot pigweed	Stage Scale: BBCH
Pest16 Type: W	Code: SIDSP Sida spinosa	Entry Date: Jul-7-2023
	Common Name: Prickly sida	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 FT ²	Tillage Type: NOTILL no-till
Replications: 3	Treatments: 6 Plots: 18
	Study Design: RACOB Randomized Complete Block (RCB)

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Previous
 No. Crop Year
 1. ZEAMX 2022

Soil Description

Description Name: F-9 West
 % Sand: 33 % OM: 1.6 Texture: SIL silt loam
 % Silt: 52 Soil Name: Crosby
 % Clay: 15 Fert. Level: G good
 pH: 6 CEC: 8.6

Application Description

	A	B	C	D	E
Date	Nov-9-2022	Apr-27-2023	Jun-7-2023	Jun-21-2023	Jul-5-2023
Start Time	9:30 AM	11:00 AM	9:40 AM	8:15 AM	9:59 AM
Stop Time	9:45 AM	11:15 AM	9:45 AM	8:19 AM	10:15 AM
Interval to Prev. Appl.		169 DAYS	41 DAYS	14 DAYS	14 DAYS
Method	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Timing	FALL	PRE	V2	V4	LPO
Placement	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By	Dobbels	McCormick	POLING	MCCORMICK	Dobbels
Entry Date	Nov-18-2022	May-3-2023	Jun-8-2023	Jun-21-2023	Jul-6-2023
Air Temperature Start, Stop	50, 53 F	53, 53 F	63, 63 F	66, 66 F	80, 80 F
% Relative Humidity Start, Stop	43, 43	54, 54	40, 40	82, 82	74, 74
Wind Velocity+Dir. Start	7 MPH, W	9 MPH, E	4 MPH, NNE	3 MPH, E	3 MPH, W
Wind Velocity+Dir. Stop	8 MPH, W	9 MPH, E	5 MPH, NNE	3 MPH, E	3 MPH, W
Wind Velocity+Dir. Max	9 MPH, W	9 MPH, E	6 MPH, NNE	3 MPH, E	3 MPH, W
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no	N, no
Soil Temperature	45 F	44 F	62 F	61 F	65 F
Soil Moisture	VERDRY	DRY	DRY	SLIWET	WET
Soil Surface Condition	MEDTRA	MEDIUM	MEDIUM	MEDIUM	MEDIUM
% Cloud Cover	5	50	10	15	20
First Moisture Occurred On	Nov-11-2022	Apr-28-2023	Jun-11-2023	Jun-23-2023	Jul-6-2023
Time to First Moisture	3.0 DAY	21.0 HR	4.0 DAY	2.0 DAY	26.0 HR
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN	0 IN	0 IN
Moisture 24 Hours after Appl.		0.04 IN	0 IN	0 IN	0.34 IN
Moisture 1 Week after Appl.	1 IN	0.13 IN	2.09 IN	0.19 IN	0.69 IN
Problems with Application?	N, no	N, no	N, no	N, no	N, no

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-180	-11	30	44	58
Stage Majority, Percent			12, 100	14, 100	16, 90
Stage Minimum, Percent			12, 100	14, 100	16, 90
Stage Maximum, Percent			12, 100	14, 100	17, 10
Height Average			4 IN	8 IN	12 IN
Height Minimum, Maximum			3, 5	6, 8	11, 13

Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale	STEME, W, BBCH	STEME, W, BBCH	STEME, W, BBCH	STEME, W, BBCH	STEME, W, BBCH
Stage Majority, Percent	19, 100	67, 100			
Diameter Average	2 IN	4 IN			
Diameter Minimum, Maximum	1, 2	4, 6			
Height Average	0.5 IN	2 IN			
Height Minimum, Maximum	0.25, 1	1, 3			
Pest 2 Code, Type, Scale	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH
Stage Majority, Percent	16, 80	67, 100			
Stage Minimum, Percent	14, 20				
Stage Maximum, Percent	16, 80				
Diameter Average	1 IN	3 IN			
Diameter Minimum, Maximum	0.5, 1	2, 3			
Height Average	2 IN	4 IN			
Height Minimum, Maximum	1, 2	3, 7			
Pest 3 Code, Type, Scale	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH
Stage Majority, Percent	19, 100	67, 100			
Diameter Average	1 IN	3 IN			
Diameter Minimum, Maximum	0.25, 1	3, 4			
Height Average	0.5 IN	8 IN			
Height Minimum, Maximum	0.25, 0.5	6, 10			
Pest 4 Code, Type, Scale	SENGL, W, BBCH	SENGL, W, BBCH	SENGL, W, BBCH	SENGL, W, BBCH	SENGL, W, BBCH
Stage Majority, Percent	19, 100	67, 100			
Diameter Average	1 IN	4 IN			
Diameter Minimum, Maximum	0.5, 1	3, 4			
Height Average	0.5 IN	4 IN			
Height Minimum, Maximum	0.25, 1	3, 5			
Pest 5 Code, Type, Scale	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH
Stage Majority, Percent		67, 100			
Diameter Average		3 IN			
Diameter Minimum, Maximum		3, 4			

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Height Average		6 IN			
Height Minimum, Maximum		3, 10			
Pest 6 Code, Type, Scale	ERYRE, W, BBCH	ERYRE, W, BBCH	ERYRE, W, BBCH	ERYRE, W, BBCH	ERYRE, W, BBCH
Stage Majority, Percent		67, 100			
Diameter Average		4 IN			
Diameter Minimum, Maximum		3, 4			
Height Average		7 IN			
Height Minimum, Maximum		5, 11			
Pest 7 Code, Type, Scale	ERICA, W, BBCH	ERICA, W, BBCH	ERICA, W, BBCH	ERICA, W, BBCH	ERICA, W, BBCH
Stage Majority, Percent		19, 100	19, 100	19, 100	19, 100
Stage Minimum, Percent		19, 100	19, 100	19, 100	19, 100
Stage Maximum, Percent			19, 100	19, 100	19, 100
Diameter Average		3 IN			
Diameter Minimum, Maximum		3, 4			
Height Average		3 IN	12 IN	12 IN	16 IN
Height Minimum, Maximum		2, 3	8, 15	4, 15	12, 18
Pest 8 Code, Type, Scale	POAAN, W, BBCH	POAAN, W, BBCH	POAAN, W, BBCH	POAAN, W, BBCH	POAAN, W, BBCH
Stage Majority, Percent		67, 100			
Height Average		3 IN			
Height Minimum, Maximum		2, 4			
Pest 9 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent			15, 80	13, 80	
Stage Minimum, Percent			13, 10	13, 80	
Stage Maximum, Percent			15, 80	15, 10	
Height Average			6 IN	3 IN	
Height Minimum, Maximum			6, 8	3, 4	
Pest10 Code, Type, Scale	SETPU, W, BBCH	SETPU, W, BBCH	SETPU, W, BBCH	SETPU, W, BBCH	SETPU, W, BBCH
Stage Majority, Percent			13, 80	17, 80	17, 90
Stage Minimum, Percent			13, 80	15, 10	17, 90
Stage Maximum, Percent			15, 10	17, 80	20, 10
Height Average			5 IN	5 IN	6 IN
Height Minimum, Maximum			4, 6	4, 6	4, 8
Pest11 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent			19, 100	19, 100	19, 100
Stage Minimum, Percent			19, 100	19, 100	19, 100
Stage Maximum, Percent			19, 100	19, 100	19, 100
Height Average			9 IN	12 IN	14 IN
Height Minimum, Maximum			7, 12	10, 15	12, 18
Pest12 Code, Type, Scale	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH
Stage Majority, Percent			19, 100	19, 100	19, 100
Stage Minimum, Percent			19, 100	19, 100	19, 100
Stage Maximum, Percent			19, 100	19, 100	19, 100
Height Average			6 IN	8 IN	12 IN
Height Minimum, Maximum			3, 7	6, 8	10, 13
Pest13 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent			18, 70	19, 80	19, 100
Stage Minimum, Percent			17, 10	18, 10	19, 100
Stage Maximum, Percent			19, 10	19, 80	19, 100
Height Average			3 IN	4 IN	8 IN
Height Minimum, Maximum			2, 4	3, 4	8, 12
Pest14 Code, Type, Scale	POLPY, W, BBCH	POLPY, W, BBCH	POLPY, W, BBCH	POLPY, W, BBCH	POLPY, W, BBCH
Stage Majority, Percent			19, 100	19, 100	19, 100
Stage Minimum, Percent			19, 100	19, 100	19, 100
Stage Maximum, Percent			19, 100	19, 100	19, 100
Height Average			12 IN	8 IN	8 IN
Height Minimum, Maximum			8, 15	3, 10	8, 10
Pest15 Code, Type, Scale	AMARE, W, BBCH	AMARE, W, BBCH	AMARE, W, BBCH	AMARE, W, BBCH	AMARE, W, BBCH
Stage Majority, Percent				19, 100	
Stage Minimum, Percent				19, 100	
Stage Maximum, Percent				19, 100	
Height Average				3 IN	
Height Minimum, Maximum				3, 4	
Pest16 Code, Type, Scale	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH
Stage Majority, Percent					15, 80
Stage Minimum, Percent					13, 10
Stage Maximum, Percent					16, 10
Height Average					4 IN
Height Minimum, Maximum					4, 6

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Application Equipment

	A	B	C	D	E
Equipment Name	6' AIXR	6' AIXR	6' AIXR	6' AIXR	6' AIXR
Equipment Type	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI	44 PSI	44 PSI	44 PSI
Nozzle Model	110015	110015	110015	110015	110015
Nozzle Type	AIXR	AIXR	AIXR	AIXR	AIXR
Nozzle TradeName	Air Inducted XR Flat	Air Inducted XR Flat	Air Inducted XR Flat	Air Inducted XR Flat	Air Inducted XR Flat
Nozzle Tip Size, Color	015, grren	015, grren	015, grren	015, grren	015, grren
Nozzle Spacing	18 IN	18 IN	18.0 IN	18.0 IN	18.0 IN
Boom Length	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Boom Height	20 IN	20 IN	20.0 IN	20.0 IN	20.0 IN
Ground Speed	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER	WATER	WATER
Water Hardness (ppm CaCO3)	250	250	250	250	250
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	1 L	1 L	1.0 L	1.0 L	1.0 L
Spray pH	7.8	7.8	7.8	7.8	7.8
Propellant	COMCO2	COMCO2	COMCO2	COMCO2	COMCO2

Notes

Context	Date	By	Notes
STATUS	Nov-1-2022	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Nov-18-2022	Dr. Mark M. Loux	Automatically added by ARM: Status changed to: E: changed by (EOHLOM).
STATUS	Nov-18-2022	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.
STATUS	May-3-2023	Dr. Mark M. Loux	Automatically added by ARM: Status changed to: E: changed by (EOHLOM).
STATUS	May-3-2023	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.

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Assessed By				
Rating Date		Oct-11-2023	Oct-11-2023	Oct-11-2023
Part Rated		GRAIN, C	GRAIN, C	GRAIN, C
Rating Type		weight	MOICON	YIELD
Rating Unit/Min/Max		LBS, -, -	%, 0, 100	BU, -, -
Sample Size		1 plot	1 QT	1 A
Collection Basis		1 plot	1 QT	1 plot
Reporting Basis		1 plot	1 PLOT	1 A
Number of Subsamples		1	1	1
Crop Type, Code		C, GLXMA	C, GLXMA	C, GLXMA
Crop Scientific Name		Glycine max	Glycine max	Glycine max
Crop Name		Soybean	Soybean	Soybean
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Days After First/Last Applic.		336, 98	336, 98	336, 98
Plant-Eval Interval		167 DP-1	167 DP-1	167 DP-1
Days After Emergence		156 DE-1	156 DE-1	156 DE-1
EDC App				
ARM Action Codes				TY1
Number of Decimals				1
Data Entry Date		Oct-16-2023	Oct-16-2023	Oct-16-2023

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	Appl Description	63*	64*	65*	66*
5	Audit 1:1	26.3 g ai/ha	0.75 oz/a		A		21.520-	10.770-	85.4-	51.47 ab
5	RoundUp PowerMAX	1540 g ai/ha	1 qt/a		A					
5	AMSOL	2.5% v/v	2.5% v/v		A					
5	Moccasin II Plus	1600 g ai/ha	24 fl oz/a		B					
5	Tricor 75 DF	280 g ai/ha	5.33 oz/a		B					
5	RoundUp PowerMAX	1540 g ai/ha	1 qt/a		B					
5	AMSOL	2.5% v/v	2.5% v/v		B					
5	Interline - Lifeline	657 g ai/ha	32 fl oz/a		D					
5	AMSOL	2.5% v/v	2.5% v/v		D					
5	Interline - Lifeline	657 g ai/ha	32 fl oz/a		E					
5	AMSOL	2.5% v/v	2.5% v/v		E					
6	H3384ae	26.3 g ai/ha	0.75 oz/a		A		21.510-	10.167-	86.0-	50.47 ab
6	RoundUp PowerMAX	1540 g ai/ha	1 qt/a		A					
6	AMSOL	2.5% v/v	2.5% v/v		A					
6	Moccasin II Plus	1600 g ai/ha	24 fl oz/a		B					
6	Tricor 75 DF	280 g ai/ha	5.33 oz/a		B					
6	RoundUp PowerMAX	1540 g ai/ha	1 qt/a		B					
6	AMSOL	2.5% v/v	2.5% v/v		B					
6	Interline - Lifeline	657 g ai/ha	32 fl oz/a		D					
6	AMSOL	2.5% v/v	2.5% v/v		D					
6	Interline - Lifeline	657 g ai/ha	32 fl oz/a		E					
6	AMSOL	2.5% v/v	2.5% v/v		E					
	LSD P=.05						3.2366	1.1123	12.87	2.416
	Standard Deviation						1.7791	0.6114	7.07	1.328
	CV						8.71	5.85	8.69	2.57
	Grand Mean						20.4139	10.4450	81.36	51.683
	Levene's F^						0.675	0.602	0.718	0.352
	Levene's Prob(F)						0.65	0.70	0.622	0.871
	Rank X2					
	P(Rank X2)					
	Shapiro-Wilk^						0.9703	0.9295	0.9709	0.9582
	P(Shapiro-Wilk)^						0.8034	0.1903	0.8135	0.567
	Skewness^						0.2402	1.0413	0.2279	-0.1951
	P(Skewness)^						0.6839	0.0904	0.6992	0.7407
	Kurtosis^						-0.4719	2.3191	-0.4088	-0.9365
	P(Kurtosis)^						0.6794	0.0544	0.7202	0.4157
	Replicate F						0.767	0.319	0.741	3.083
	Replicate Prob(F)						0.4898	0.7342	0.5011	0.0906
	Treatment F						2.155	0.405	2.149	5.464
	Treatment Prob(F)						0.1412	0.8346	0.1420	0.0111

Part Rated
 GRAIN = grain

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. 63-66=3
 * Adjusted means
 ^Calculated from residual.

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C = Crop is Part Rated

Rating Type

MOICON = moisture content

YIELD = yield

WEITES = weight - test

Rating Unit/Min/Max

%, 0, 100 = percent

BU, , = bushel

plot = total plot

QT = quart

A = acre

plot = total plot

QT = quart

plot = total plot

A = acre

BU = bushel

Crop Type, Code

C = EPP0 species (Bayer) codes

GLXMA, BSOY, Glycine max, Soybean = US

Plant-Eval Interval

167 DP-1 = 1 GLXMA Apr-27-2023

ARM Action Codes

TY1 = $3.872 * [63]^{(100-[64])/87}$

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