

The Ohio State University

UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

General Trial Information

Investigator: Dr. Mark M. Loux

Discipline: H herbicide
 Trial Status: E established

ARM Trial Created On: Apr-29-2021
 Initiation Date: Nov-6-2020

Trial Location

Address (Location): 7721 South Charleston Pike
 City: South Charleston Country: USA United States
 State/Prov.: Ohio
 Postal Code: 45368

Latitude of LL Corner °: 39.85873 N
 Longitude of LL Corner °: -83.67123 W
 Altitude of LL Corner: 1087.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No
 Role: INVEST investigator
 Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C	ZEAMX Zea mays	Corn	BBCH Scale: BCOR
Entry Date:	May-17-2021	Stage Scale:	BBCH
Variety:	Pioneer P1108Q		
Attributes:	Glyphosate-R, Glufosinate-R		
Planting Date:	May-13-2021	Planting Rate:	35000 S/A
Depth:	2 IN	Planting Method:	PLANTD planted
Rows per Plot:	4	Planting Equipment:	FPP finger pickup planter
Row Spacing:	30 IN	Seed Bed:	MEDIUM medium
Soil Temperature:	73 F	Soil Moisture:	NORMAL normal, adequate
Emergence Date:	Jun-1-2021	Harvest Equipment:	Kincaid 8XP
Moisture Meter:	Harvest Master	Harvested Width:	5 FT
% Standard Moisture:	15.5	Harvested Length:	30 FT
Weighing Equipment:	Harvest Master HM800		

Pest Description

Pest 1 Type: W	Code: TAROF Taraxacum officinale	Entry Date: Nov-6-2020
Common Name:	Dandelion	Stage Scale: BBCH
Pest 2 Type: W	Code: STEME Stellaria media	Entry Date: Nov-6-2020
Common Name:	Common chickweed	Stage Scale: BBCH
Pest 3 Type: W	Code: LAMPU Lamium purpureum	Entry Date: Nov-6-2020
Common Name:	Purple deadnettle	Stage Scale: BBCH
Pest 4 Type: W	Code: ERICA Erigeron canadensis	Entry Date: Jun-7-2021
Common Name:	Canada horseweed	Stage Scale: BBCH
Pest 5 Type: W	Code: SETFA Setaria faberi	Entry Date: Jun-7-2021
Common Name:	Giant foxtail	Stage Scale: BBCH
Pest 6 Type: W	Code: AMBTR Ambrosia trifida	Entry Date: Jun-7-2021
Common Name:	Giant ragweed	Stage Scale: BBCH
Pest 7 Type: W	Code: AMBEL Ambrosia artemisiifolia	Entry Date: Jun-7-2021
Common Name:	Common ragweed	Stage Scale: BBCH
Pest 8 Type: W	Code: CHEAL Chenopodium album	Entry Date: Jun-7-2021
Common Name:	common lambsquarters	Stage Scale: BBCH
Pest 9 Type: W	Code: POLPY Persicaria pensylvanica	Entry Date: Jun-7-2021
Common Name:	annual smartweed	Stage Scale: BBCH
Pest10 Type: W	Code: SIDSP Sida spinosa	Entry Date: Jun-14-2021
Common Name:	Prickly sida	Stage Scale: BBCH
Pest11 Type: W	Code: ABUTH Abutilon theophrasti	Entry Date: Jun-14-2021
Common Name:	velvetleaf	Stage Scale: BBCH

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Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 300.0 FT2 Treatments: 6 Tillage Type: NOTILL no-till
 Replications: 3 Study Design: RACOBL Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2020

Soil Description

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

Application Description

	A		B		C		D	
Application Date	Nov-6-2020		May-14-2021		Jun-6-2021		Jun-11-2021	
Appl. Start Time	9:00 AM		3:00 PM		9:30 AM		1:30 PM	
Appl. Stop Time	9:15 AM		3:30 PM		9:40 AM		1:40 PM	
Interval to Prev. Appl.			189 DAYS		23 DAYS		5 DAYS	
Application Method	SPRAY		SPRAY		SPRAY		SPRAY	
Application Timing	FALL		PREPRE		EPO		POST	
Application Placement	BROFOL		BROFOL		BROFOL		BROFOL	
Applied By	Dobbels		GARCIA		Dobbels		Dobbel	
Appl. Entry Date	Nov-6-2020		May-17-2021		Jun-7-2021		Jun-14-2021	
Air Temperature Start, Stop	53	53	F 66	66	F 81	81	F 81	81
% Relative Humidity Start, Stop	74	70	24	24	60	60	71	71
Wind Velocity+Dir. Start	5	MPH SW 3	MPH NW 4	MPH S	6	MPH N		
Wind Velocity+Dir. Stop	5	MPH SW 3	MPH NW 4	MPH S	6	MPH N		
Wind Velocity+Dir. Max	5	MPH SW 3	MPH NW 4	MPH S	6	MPH N		
Wet Leaves (Y/N)	N no		N no		N no		N no	
Soil Temperature	44	F	63	F	67	F	78	F
Soil Moisture	dry		NORMAL		dry		SLIWET	
Soil Surface Condition	MEDTRA		MEDIUM		MEDIUM		MEDIUM	
% Cloud Cover	0		40		60		60	
Next Moisture Occurred On	Nov-10-2020		May-17-2021		Jun-7-2021		Jun-18-2021	
Time to Next Moisture	4.0 DAY		65.0 HR		22.0 HR		7.0 DAY	
Moisture 6 Hours after Appl.	0 IN		0 IN		0 IN		0 IN	
Moisture 1 Week after Appl.	0.73 IN		0.29 IN		1.32 IN		0.34 IN	

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Days after Emergence	-207		-18		5		10	
Stage Majority, Percent			00	100	13	100	15	100
Height Average					9	IN	13	IN
Height Minimum, Maximum					7	10	12	15

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Application Equipment

	A		B		C		D	
Appl. Equipment	6 FT		6' AIXR		10' AIXR			
Equipment Type	BACCAI		BACCAI		BACCAI			
Operation Pressure	44	PSI	44	PSI	44	PSI		
Nozzle Model	110015		110015		110015			
Nozzle Type	AI XR		AIXR		AI XR			
Nozzle Spacing	18 IN		18 IN		18 IN			
Boom Length	6.67 FT		6.67 FT		10 FT			
Boom Height	20 IN		20 IN		20 IN			
Ground Speed	3 MPH		3 MPH		3 MPH			
Carrier	WATER		WATER		WATER			
Water Hardness (ppm CaCO3)					250			
Application Amount	15	GAL/AC	15	GAL/AC	15	GAL/AC		
Mix Coverage					25	mL		
Mix Size	1	L	1	L	2	L		
Spray pH					7.8			
Propellant	COMCO2		COMCO2		COMCO2			
Tank Mix (Y/N)					Y yes			

Notes

Context	Date	By	Notes
STATUS	Oct-28-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Nov-6-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	STEME	LAMPU	TAROF	VERAG	CARPE			
Pest Scientific Name	Stellaria media	Lamium purpureum	Taraxacum offic>	Veronica Cardamine pensy>	agrest>			
Pest Name	Common chickweed	Purple deadnett>	Blowball	Field speedwell	Pennsylvania bi>			
Crop Type, Code								
Crop Name								
Rating Date	Apr-16-2021	Apr-16-2021	Apr-16-2021	Apr-16-2021	Apr-16-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Apr-19-2021	Apr-19-2021	Apr-19-2021	Apr-19-2021	Apr-19-2021			
Rating Timing								
Days After First/Last Applic.	161 161	161 161	161 161	161 161	161 161			
Trt-Eval Interval	161 DA-A	161 DA-A	161 DA-A	161 DA-A	161 DA-A			
Plant-Eval Interval	-27 DP-1	-27 DP-1	-27 DP-1	-27 DP-1	-27 DP-1			
Days After Emergence	-46 DE-1	-46 DE-1	-46 DE-1	-46 DE-1	-46 DE-1			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*

1 UTC				0 -	0 -	0 b	0 b	0 -
2 Roundup Powermax	32 oz/a	A		100 -	100 -	98 a	95 a	100 -
Weedmaster	32 oz/a	A						
N Pak AMS	2.5 % v/v	A						
Roundup Powermax	32 oz/a	B						
Preview	19.7 oz/a	B						
N Pak AMS	2.5 % v/v	B						
Intermoc	64 oz/a	C						
N Pak AMS	2.5 % v/v	C						
Interline	32 oz/a	D						
N Pak AMS	2.5 % v/v	D						
3 Roundup Powermax	32 oz/a	A		100 -	100 -	100 a	100 a	100 -
Audit 1:1	0.75 oz/a	A						
N Pak AMS	2.5 % v/v	A						
Intermoc	64 oz/a	B						
N Pak AMS	2.5 % v/v	B						
Interline	32 oz/a	D						
N Pak AMS	2.5 % v/v	D						

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Pest Code	STEME	LAMPU	TAROF	VERAG	CARPE		
Pest Scientific Name	Stellaria media	Lamium purpureum	Taraxacum offic>	Veronica agrest>	Cardamine pensy>		
Pest Name	Common chickweed	Purple deadnett>	Blowball	Field speedwell	Pennsylvania bi>		
Crop Type, Code							
Crop Name							
Rating Date	Apr-16-2021	Apr-16-2021	Apr-16-2021	Apr-16-2021	Apr-16-2021		
Part Rated							
Rating Type	Contro	Contro	Contro	Contro	Contro		
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Apr-19-2021	Apr-19-2021	Apr-19-2021	Apr-19-2021	Apr-19-2021		
Rating Timing							
Days After First/Last Applic.	161 161	161 161	161 161	161 161	161 161		
Trt-Eval Interval	161 DA-A	161 DA-A	161 DA-A	161 DA-A	161 DA-A		
Plant-Eval Interval	-27 DP-1	-27 DP-1	-27 DP-1	-27 DP-1	-27 DP-1		
Days After Emergence	-46 DE-1	-46 DE-1	-46 DE-1	-46 DE-1	-46 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Other Other	Appl	1*	2*	3*	4*	5*
No. Name	Rate Rate Unit Code						
4 Roundup Powermax	32 oz/a	A	100 -	100 -	100 a	100 a	100 -
Audit 1:1	0.75 oz/a	A					
N Pak AMS	2.5 % v/v	A					
Intermoc	64 oz/a	B					
Resolve	1 oz/a	B					
N Pak AMS	2.5 % v/v	B					
Interline	32 oz/a	D					
N Pak AMS	2.5 % v/v	D					
5 Roundup Powermax	32 oz/a	A	100 -	100 -	100 a	100 a	100 -
KFD-544-01	0.75 oz/a	A					
N Pak AMS	2.5 % v/v	A					
Intermoc	64 oz/a	B					
N Pak AMS	2.5 % v/v	B					
Interline	32 oz/a	D					
Resolve	1 oz/a	D					
N Pak AMS	2.5 % v/v	D					
6 Roundup Powermax	32 oz/a	A	100 -	100 -	100 a	100 a	100 -
Audit 1:1	1 oz/a	A					
N Pak AMS	2.5 % v/v	A					
Interline	32 oz/a	C					
Resolve	1 oz/a	C					
N Pak AMS	2.5 % v/v	C					
LSD P=.05					2.1	6.2	
Standard Deviation			0.0	0.0	1.2	3.4	0.0
CV			0.0	0.0	1.39	4.11	0.0
Levene's F^					0.56	0.661	
Levene's Prob(F)					0.729	0.66	
Skewness^					-1.2703*	-1.3463*	
Kurtosis^					4.2606*	4.797*	
Replicate F			0.000	0.000	1.500	1.169	0.000
Replicate Prob(F)			1.0000	1.0000	0.2693	0.3498	1.0000
Treatment F			0.000	0.000	3721.000	427.792	0.000
Treatment Prob(F)			1.0000	1.0000	0.0001	0.0001	1.0000

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Pest Code	STEME	LAMPU	TAROF	VERAG	CARPE
Pest Scientific Name	Stellaria media	Lamium purpureum	Taraxacum offic>	Veronica agrest>	Cardamine pensy>
Pest Name	Common chickweed	Purple deadnett>	Blowball	Field speedwell	Pennsylvania bi>
Crop Type, Code					
Crop Name					
Rating Date	Apr-30-2021	Apr-30-2021	Apr-30-2021	Apr-30-2021	Apr-30-2021
Part Rated					
Rating Type	Contro	Contro	Contro	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-3-2021	May-3-2021	May-3-2021	May-3-2021	May-3-2021
Rating Timing					
Days After First/Last Applic.	175 175	175 175	175 175	175 175	175 175
Trt-Eval Interval	175 DA-A	175 DA-A	175 DA-A	175 DA-A	175 DA-A
Plant-Eval Interval	-13 DP-1	-13 DP-1	-13 DP-1	-13 DP-1	-13 DP-1
Days After Emergence	-32 DE-1	-32 DE-1	-32 DE-1	-32 DE-1	-32 DE-1
ARM Action Codes	AS			EC	
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	6* dAS	7*	8*	9*	10*
1 UTC				0 c	0 c	0 b	0	0 c
2 Roundup Powermax	32 oz/a		A	100 a	82 b	93 a	87 -	82 b
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	100 a	87 ab	95 a	87 -	93 a
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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Pest Code	STEME	LAMPU	TAROF	VERAG	CARPE				
Pest Scientific Name	Stellaria media	Lamium purpureum	Taraxacum offic>	Veronica agrest>	Cardamine pensy>				
Pest Name	Common chickweed	Purple deadnett>	Blowball	Field speedwell	Pennsylvania bi>				
Crop Type, Code									
Crop Name									
Rating Date	Apr-30-2021	Apr-30-2021	Apr-30-2021	Apr-30-2021	Apr-30-2021				
Part Rated									
Rating Type	Contro	Contro	Contro	Contro	Contro				
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100				
Sample Size									
Number of Subsamples	1	1	1	1	1				
Data Entry Date	May-3-2021	May-3-2021	May-3-2021	May-3-2021	May-3-2021				
Rating Timing									
Days After First/Last Applic.	175 175	175 175	175 175	175 175	175 175				
Trt-Eval Interval	175 DA-A	175 DA-A	175 DA-A	175 DA-A	175 DA-A				
Plant-Eval Interval	-13 DP-1	-13 DP-1	-13 DP-1	-13 DP-1	-13 DP-1				
Days After Emergence	-32 DE-1	-32 DE-1	-32 DE-1	-32 DE-1	-32 DE-1				
ARM Action Codes	AS			EC					
Number of Decimals	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	6* dAS	7*	8*	9*	10*
4	Roundup Powermax	32 oz/a		A	100 a	93 ab	100 a	90 -	100 a
	Audit 1:1	0.75 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Intermoc	64 oz/a		B					
	Resolve	1 oz/a		B					
	N Pak AMS	2.5 % v/v		B					
	Interline	32 oz/a		D					
	N Pak AMS	2.5 % v/v		D					
5	Roundup Powermax	32 oz/a		A	97 b	100 a	100 a	93 -	100 a
	KFD-544-01	0.75 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Intermoc	64 oz/a		B					
	N Pak AMS	2.5 % v/v		B					
	Interline	32 oz/a		D					
	Resolve	1 oz/a		D					
	N Pak AMS	2.5 % v/v		D					
6	Roundup Powermax	32 oz/a		A	100 a	100 a	97 a	93 -	100 a
	Audit 1:1	1 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Interline	32 oz/a		C					
	Resolve	1 oz/a		C					
	N Pak AMS	2.5 % v/v		C					
LSD P=.05					2.1 - 2.2	11.2	11.6	24.8	8.6
Standard Deviation					0.1t	6.2	6.4	13.2	4.7
CV					0.7t	8.02	7.91	14.63	5.99
Levene's F^					0.533	0.573	0.661	0.515	0.551
Levene's Prob(F)					0.747	0.72	0.66	0.727	0.735
Skewness^					1.3829*	-0.0251	-0.8432	-0.6906	-1.2598*
Kurtosis^					4.8663*	0.1082	0.7336	-0.0881	3.9447*
Replicate F					1.000	2.226	0.918	1.817	1.296
Replicate Prob(F)					0.4019	0.1586	0.4304	0.2235	0.3158
Treatment F					12165.861	116.182	115.735	0.192	207.370
Treatment Prob(F)					0.0001	0.0001	0.0001	0.9357	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	STEME	LAMPU	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifida	Stellaria media	Lamium purpureum	Ambrosia trifida	Chenopodium alb>
Pest Name	Giant ragweed	Common chickweed	Purple deadnett>	Giant ragweed	common lambsqua>
Crop Type, Code					
Crop Name					
Rating Date	Apr-30-2021	May-13-2021	May-13-2021	May-13-2021	May-13-2021
Part Rated					
Rating Type	Contro	Contro	Contro	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-3-2021	May-17-2021	May-17-2021	May-17-2021	May-17-2021
Rating Timing		AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	175 175	188 188	188 188	188 188	188 188
Trt-Eval Interval	175 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A
Plant-Eval Interval	-13 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-32 DE-1	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1
ARM Action Codes		EC	EC	AS	
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14* dAS	15*
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1 UTC				0 -	0	0	0 -	0 -
2 Roundup Powermax	32 oz/a		A	10 -	82 c	78 -	0 -	-8 -
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	33 -	98 a	78 -	0 -	34 -
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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Pest Scientific Name	Ambrosia trifida	Stellaria media	Lamium purpureum	Ambrosia trifida	Chenopodium alb>			
Pest Name	Giant ragweed	Common chickweed	Purple deadnett>	Giant ragweed	common lambsqua>			
Crop Type, Code								
Crop Name								
Rating Date	Apr-30-2021	May-13-2021	May-13-2021	May-13-2021	May-13-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	May-3-2021	May-17-2021	May-17-2021	May-17-2021	May-17-2021			
Rating Timing		AT PLANT	AT PLANT	AT PLANT	AT PLANT			
Days After First/Last Applic.	175 175	188 188	188 188	188 188	188 188			
Trt-Eval Interval	175 DA-A	188 DA-A	188 DA-A	188 DA-A	188 DA-A			
Plant-Eval Interval	-13 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1			
Days After Emergence	-32 DE-1	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1			
ARM Action Codes		EC	EC	AS				
Number of Decimals	0	0	0	0	0			
Trt No.	Treatment Name	Other Rate	Other Rate Unit Code	11*	12*	13*	14* dAS	15*
4	Roundup Powermax	32 oz/a	A	10 -	100 a	85 -	0 -	27 -
	Audit 1:1	0.75 oz/a	A					
	N Pak AMS	2.5 % v/v	A					
	Intermoc	64 oz/a	B					
	Resolve	1 oz/a	B					
	N Pak AMS	2.5 % v/v	B					
	Interline	32 oz/a	D					
	N Pak AMS	2.5 % v/v	D					
5	Roundup Powermax	32 oz/a	A	20 -	90 b	93 -	0 -	33 -
	KFD-544-01	0.75 oz/a	A					
	N Pak AMS	2.5 % v/v	A					
	Intermoc	64 oz/a	B					
	N Pak AMS	2.5 % v/v	B					
	Interline	32 oz/a	D					
	Resolve	1 oz/a	D					
	N Pak AMS	2.5 % v/v	D					
6	Roundup Powermax	32 oz/a	A	30 -	100 a	97 -	10 -	95 -
	Audit 1:1	1 oz/a	A					
	N Pak AMS	2.5 % v/v	A					
	Interline	32 oz/a	C					
	Resolve	1 oz/a	C					
	N Pak AMS	2.5 % v/v	C					
LSD P=.05				28.1	7.1	26.2	9.5 - 30.1	73.5
Standard Deviation				15.5	3.8	13.9	1.7t	39.0
CV				89.74	4.0	16.09	155.79t	113.5
Levene's F^				0.636	0.493	0.493	0.533	0.767
Levene's Prob(F)				0.677	0.742	0.741	0.747	0.594
Skewness^				-0.3217	0.823	-0.0214	1.3829*	0.5083
Kurtosis^				0.31	1.2465	-0.3251	4.8663*	-0.3379
Replicate F				3.930	2.471	2.652	1.000	0.794
Replicate Prob(F)				0.0550	0.1460	0.1307	0.4019	0.4846
Treatment F				2.088	13.706	1.110	1.000	2.266
Treatment Prob(F)				0.1506	0.0012	0.4151	0.4651	0.1454

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	TAROF	ERICA	SETFA	AMBTR
Pest Scientific Name	Persicaria pens>	Taraxacum offic>	Erigeron canad>	Setaria faberi	Ambrosia trifida
Pest Name	annual smartweed	Blowball	Canada horseweed	Giant foxtail	Giant ragweed
Crop Type, Code					
Crop Name					
Rating Date	May-13-2021	Jun-1-2021	Jun-1-2021	Jun-1-2021	Jun-1-2021
Part Rated					
Rating Type	Contro	Contro	Contro	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-17-2021	Jun-2-2021	Jun-2-2021	Jun-2-2021	Jun-2-2021
Rating Timing	AT PLANT				
Days After First/Last Applic.	188 188	207 18	207 18	207 18	207 18
Trt-Eval Interval	188 DA-A	18 DA-B	18 DA-B	18 DA-B	18 DA-B
Plant-Eval Interval	0 DP-1	19 DP-1	19 DP-1	19 DP-1	19 DP-1
Days After Emergence	-19 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1
ARM Action Codes	ER1	AS	AS	AA	
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	16*	17*	18*	19*	20*
					dAS	dAS	dAA	

1 UTC			A	0 -	0 b	0 c	0 c	0 b
2 Roundup Powermax	32 oz/a		A	0 -	100 a	93 ab	85 a	75 a
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	0 -	100 a	100 a	85 a	80 a
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	TAROF	ERICA	SETFA	AMBTR
Pest Scientific Name	Persicaria pens>	Taraxacum offic>	Erigeron canad>	Setaria faberi	Ambrosia trifida
Pest Name	annual smartweed	Blowball	Canada horseweed	Giant foxtail	Giant ragweed
Crop Type, Code					
Crop Name					
Rating Date	May-13-2021	Jun-1-2021	Jun-1-2021	Jun-1-2021	Jun-1-2021
Part Rated					
Rating Type	Contro	Contro	Contro	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 % 100	0 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-17-2021	Jun-2-2021	Jun-2-2021	Jun-2-2021	Jun-2-2021
Rating Timing	AT PLANT				
Days After First/Last Applic.	188 188	207 18	207 18	207 18	207 18
Trt-Eval Interval	188 DA-A	18 DA-B	18 DA-B	18 DA-B	18 DA-B
Plant-Eval Interval	0 DP-1	19 DP-1	19 DP-1	19 DP-1	19 DP-1
Days After Emergence	-19 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1
ARM Action Codes	ER1	AS	AS	AA	
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	16*	17* dAS	18* dAS	19* dAA	20*
4	Roundup Powermax	32 oz/a		A		100 a	100 a	82 a	80 a
	Audit 1:1	0.75 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Intermoc	64 oz/a		B					
	Resolve	1 oz/a		B					
	N Pak AMS	2.5 % v/v		B					
	Interline	32 oz/a		D					
	N Pak AMS	2.5 % v/v		D					
5	Roundup Powermax	32 oz/a		A	0 -	98 a	93 ab	83 a	77 a
	KFD-544-01	0.75 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Intermoc	64 oz/a		B					
	N Pak AMS	2.5 % v/v		B					
	Interline	32 oz/a		D					
	Resolve	1 oz/a		D					
	N Pak AMS	2.5 % v/v		D					
6	Roundup Powermax	32 oz/a		A		100 a	80 b	50 b	0 b
	Audit 1:1	1 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Interline	32 oz/a		C					
	Resolve	1 oz/a		C					
	N Pak AMS	2.5 % v/v		C					
LSD P=.05						2.2 - 2.2	12.5 - 13.0	2.8 - 3.8	11.7
Standard Deviation					0.0	0.1t	0.4t	1.2t	6.4
CV					0.0	0.7t	4.5t	2.31t	12.39
Levene's F^					7.646	0.533	0.87	0.48	1.20
Levene's Prob(F)					0.009*	0.747	0.529	0.785	0.366
Skewness^					0.0	-1.3829*	-1.1019*	0.0	-0.726
Kurtosis^					1.8636	4.8663*	1.743	0.2007	2.525*
Replicate F					0.000	1.000	0.455	1.667	0.638
Replicate Prob(F)					1.0000	0.4019	0.6472	0.2373	0.5488
Treatment F					0.000	12207.134	300.046	1500.749	117.617
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	POLPY	CHEAL	SETFA	AMBTR			
Pest Scientific Name	Ambrosia artemi>	Persicaria pens>	Chenopodium alb>	Setaria faberi	Ambrosia trifida			
Pest Name	Common ragweed	annual smartweed	common lambsqua>	Giant foxtail	Giant ragweed			
Crop Type, Code								
Crop Name								
Rating Date	Jun-1-2021	Jun-1-2021	Jun-1-2021	Jun-14-2021	Jun-14-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jun-2-2021	Jun-2-2021	Jun-2-2021	Jun-30-2021	Jun-30-2021			
Rating Timing								
Days After First/Last Applic.	207 18	207 18	207 18	220 3	220 3			
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	8 DA-C	8 DA-C			
Plant-Eval Interval	19 DP-1	19 DP-1	19 DP-1	32 DP-1	32 DP-1			
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	13 DE-1	13 DE-1			
ARM Action Codes		ET6		ET6				
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	21*	22*	23*	24*	25*

1 UTC				0 b	0 b	0 b	0 c	0 d
2 Roundup Powermax	32 oz/a		A	87 a	76 a	87 a	92 a	98 a
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	80 a	72 a	87 a	67 b	60 c
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	POLPY	CHEAL	SETFA	AMBTR			
Pest Scientific Name	Ambrosia artemi>	Persicaria pens>	Chenopodium alb>	Setaria faberi	Ambrosia trifida			
Pest Name	Common ragweed	annual smartweed	common lambsqua>	Giant foxtail	Giant ragweed			
Crop Type, Code								
Crop Name								
Rating Date	Jun-1-2021	Jun-1-2021	Jun-1-2021	Jun-14-2021	Jun-14-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 % 100	% 0 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jun-2-2021	Jun-2-2021	Jun-2-2021	Jun-30-2021	Jun-30-2021			
Rating Timing								
Days After First/Last Applic.	207 18	207 18	207 18	220 3	220 3			
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	8 DA-C	8 DA-C			
Plant-Eval Interval	19 DP-1	19 DP-1	19 DP-1	32 DP-1	32 DP-1			
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	13 DE-1	13 DE-1			
ARM Action Codes		ET6		ET6				
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	21*	22*	23*	24*	25*
4 Roundup Powermax	32 oz/a		A	82 a	80 a	82 a	63 b	60 c
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
Resolve	1 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
5 Roundup Powermax	32 oz/a		A	87 a	70 a	95 a	83 a	60 c
KFD-544-01	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
Resolve	1 oz/a		D					
N Pak AMS	2.5 % v/v		D					
6 Roundup Powermax	32 oz/a		A	0 b	0	0 b	80	77 b
Audit 1:1	1 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Interline	32 oz/a		C					
Resolve	1 oz/a		C					
N Pak AMS	2.5 % v/v		C					
LSD P=.05				12.4	23.6	18.8	9.0	9.5
Standard Deviation				6.8	11.8	10.3	4.8	5.2
CV				12.24	20.76	17.71	7.81	8.8
Levene's F^				0.773	0.258	0.424	0.537	1.595
Levene's Prob(F)				0.587	0.897	0.824	0.712	0.235
Skewness^				-0.7285	-0.4596	-0.6435	0.4151	0.0103
Kurtosis^				1.4859	-1.355	0.8705	-0.0258	2.6835*
Replicate F				1.429	3.622	2.031	5.985	0.187
Replicate Prob(F)				0.2846	0.0930	0.1818	0.0258	0.8324
Treatment F				120.696	23.315	57.938	172.158	117.914
Treatment Prob(F)				0.0001	0.0008	0.0001	0.0001	0.0001

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	CHEAL	AMARE	ABUTH	POLPY			
Pest Scientific Name	Ambrosia artemi>	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Persicaria pens>			
Pest Name	Common ragweed	common lambsqua>	Redroot pigweed	velvetleaf	annual smartweed			
Crop Type, Code								
Crop Name								
Rating Date	Jun-14-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size								
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			
Rating Timing								
Days After First/Last Applic.	220 3	220 3	220 3	220 3	220 3			
Trt-Eval Interval	8 DA-C	8 DA-C	8 DA-C	8 DA-C	8 DA-C			
Plant-Eval Interval	32 DP-1	32 DP-1	32 DP-1	32 DP-1	32 DP-1			
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1			
ARM Action Codes	AS	EC	ET5		AA			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	26* dAS	27*	28*	29*	30* dAA

1 UTC				0 d	0	0 -	0 -	0 e
2 Roundup Powermax	32 oz/a		A	100 a	92 -	100 -	100 -	100 a
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	60 c	73 -	100 -		31 d
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	AMARE	ABUTH	POLPY
Pest Scientific Name	Ambrosia artemi>	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Persicaria pens>
Pest Name	Common ragweed	common lambsqua>	Redroot pigweed	velvetleaf	annual smartweed
Crop Type, Code					
Crop Name					
Rating Date	Jun-14-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021
Part Rated					
Rating Type	Contro	Contro	Contro	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size					
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
Rating Timing					
Days After First/Last Applic.	220 3	220 3	220 3	220 3	220 3
Trt-Eval Interval	8 DA-C	8 DA-C	8 DA-C	8 DA-C	8 DA-C
Plant-Eval Interval	32 DP-1	32 DP-1	32 DP-1	32 DP-1	32 DP-1
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1
ARM Action Codes	AS	EC	ET5		AA
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	26* dAS	27*	28*	29*	30* dAA
4	Roundup Powermax	32 oz/a		A	63 c	77 -	80 -		67 bc
	Audit 1:1	0.75 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Intermoc	64 oz/a		B					
	Resolve	1 oz/a		B					
	N Pak AMS	2.5 % v/v		B					
	Interline	32 oz/a		D					
	N Pak AMS	2.5 % v/v		D					
5	Roundup Powermax	32 oz/a		A	97 a	95 -	95	60 -	57 c
	KFD-544-01	0.75 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Intermoc	64 oz/a		B					
	N Pak AMS	2.5 % v/v		B					
	Interline	32 oz/a		D					
	Resolve	1 oz/a		D					
	N Pak AMS	2.5 % v/v		D					
6	Roundup Powermax	32 oz/a		A	77 b	77 -	80 -	80 -	81 b
	Audit 1:1	1 oz/a		A					
	N Pak AMS	2.5 % v/v		A					
	Interline	32 oz/a		C					
	Resolve	1 oz/a		C					
	N Pak AMS	2.5 % v/v		C					
	LSD P=.05				7.2 - 8.9	14.8	.	.	2.5 - 16.6
	Standard Deviation				0.2t	7.7	0.0	0.0	5.1t
	CV				3.31t	9.39	0.0	0.0	11.09t
	Levene's F^				0.612	0.425	.	.	0.591
	Levene's Prob(F)				0.693	0.787	.	.	0.708
	Skewness^				-0.2829	0.0366	.	.	0.9585
	Kurtosis^				0.5723	-1.1512	.	.	1.1467
	Replicate F				0.256	2.157	0.000	0.000	0.389
	Replicate Prob(F)				0.7788	0.1863	1.0000	1.0000	0.6913
	Treatment F				581.932	4.301	0.000	0.000	89.018
	Treatment Prob(F)				0.0001	0.0454	1.0000	1.0000	0.0001

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	AMBTR	AMBEL	CHEAL
Pest Scientific Name	Sida spinosa	Setaria faberi	Ambrosia trifida	Ambrosia artemi>	Chenopodium alb>
Pest Name	Prickly sida	Giant foxtail	Giant ragweed	Common ragweed	common lambsqua>
Crop Type, Code					
Crop Name					
Rating Date	Jun-14-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021
Part Rated					
Rating Type	Contro	Contro	Contro	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size					
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
Rating Timing					
Days After First/Last Applic.	220 3	234 17	234 17	234 17	234 17
Trt-Eval Interval	8 DA-C	22 DA-C	22 DA-C	22 DA-C	22 DA-C
Plant-Eval Interval	32 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	13 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
ARM Action Codes				AS	
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	31*	32*	33*	34* dAS	35*
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1 UTC				0 -	0 d	0 c	0 c	0 c
2 Roundup Powermax	32 oz/a		A	100 -	100 a	88 ab	100 a	100 a
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	30 -	98 ab	93 a	100 a	100 a
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SIDSP	SETFA	AMBTR	AMBEL	CHEAL				
Pest Scientific Name	Sida spinosa	Setaria faberi	Ambrosia trifida	Ambrosia artemisiifolia	Chenopodium album				
Pest Name	Prickly sida	Giant foxtail	Giant ragweed	Common ragweed	common lambsquarters				
Crop Type, Code									
Crop Name									
Rating Date	Jun-14-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021				
Part Rated									
Rating Type	Contro	Contro	Contro	Contro	Contro				
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100				
Sample Size									
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				
Rating Timing									
Days After First/Last Applic.	220 3	234 17	234 17	234 17	234 17				
Trt-Eval Interval	8 DA-C	22 DA-C	22 DA-C	22 DA-C	22 DA-C				
Plant-Eval Interval	32 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1				
Days After Emergence	13 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1				
ARM Action Codes				AS					
Number of Decimals	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	31*	32*	33*	34* dAS	35*
4	Roundup Powermax	32 oz/a	A		60 -	99 ab	98 a	100 a	98 a
	Audit 1:1	0.75 oz/a	A						
	N Pak AMS	2.5 % v/v	A						
	Intermoc	64 oz/a	B						
	Resolve	1 oz/a	B						
	N Pak AMS	2.5 % v/v	B						
	Interline	32 oz/a	D						
	N Pak AMS	2.5 % v/v	D						
5	Roundup Powermax	32 oz/a	A		30 -	95 bc	88 ab	100 a	100 a
	KFD-544-01	0.75 oz/a	A						
	N Pak AMS	2.5 % v/v	A						
	Intermoc	64 oz/a	B						
	N Pak AMS	2.5 % v/v	B						
	Interline	32 oz/a	D						
	Resolve	1 oz/a	D						
	N Pak AMS	2.5 % v/v	D						
6	Roundup Powermax	32 oz/a	A		80 -	93 c	80 b	78 b	73 b
	Audit 1:1	1 oz/a	A						
	N Pak AMS	2.5 % v/v	A						
	Interline	32 oz/a	C						
	Resolve	1 oz/a	C						
	N Pak AMS	2.5 % v/v	C						
	LSD P=.05					3.3	9.3	4.3 - 4.7	4.6
	Standard Deviation				0.0	1.8	5.1	0.1t	2.5
	CV				0.0	2.27	6.86	1.59t	3.22
	Levene's F^				.	0.729	0.785	0.533	0.515
	Levene's Prob(F)				.	0.615	0.58	0.747	0.76
	Skewness^				.	-1.0871*	0.3592	1.3829*	0.8971
	Kurtosis^				.	1.2374	0.2371	4.8663*	2.0087
	Replicate F				0.000	0.213	0.155	1.000	1.522
	Replicate Prob(F)				1.0000	0.8116	0.8586	0.4019	0.2649
	Treatment F				0.000	1397.721	156.833	2427.881	748.391
	Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMARE	ABUTH	POLPY	SIDSP	SETFA			
Pest Scientific Name	Amaranthus retr>	Abutilon theoph>	Persicaria pens>	Sida spinosa	Setaria faberi			
Pest Name	Redroot pigweed	velvetleaf	annual smartweed	Prickly sida	Giant foxtail			
Crop Type, Code								
Crop Name								
Rating Date	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jul-12-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jun-30-2021	Jun-30-2021	Jun-30-2021	Jun-30-2021	Jul-13-2021			
Rating Timing								
Days After First/Last Applic.	234 17	234 17	234 17	234 17	248 31			
Trt-Eval Interval	22 DA-C	22 DA-C	22 DA-C	22 DA-C	36 DA-C			
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	60 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	41 DE-1			
ARM Action Codes				AS	EC			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	36*	37*	38*	39* dAS	40*

1 UTC				0 -	0 b	0 b	0 b	0
2 Roundup Powermax	32 oz/a		A	100 -	100 a	100 a	100 a	95 a
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	100 -	60 a	100 a	100 a	83 b
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMARE	ABUTH	POLPY	SIDSP	SETFA			
Pest Scientific Name	Amaranthus retr>	Abutilon theoph>	Persicaria pens>	Sida spinosa	Setaria faberi			
Pest Name	Redroot pigweed	velvetleaf	annual smartweed	Prickly sida	Giant foxtail			
Crop Type, Code								
Crop Name								
Rating Date	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jun-28-2021	Jul-12-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100 %	% 0 100	% 0 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jun-30-2021	Jun-30-2021	Jun-30-2021	Jun-30-2021	Jul-13-2021			
Rating Timing								
Days After First/Last Applic.	234 17	234 17	234 17	234 17	248 31			
Trt-Eval Interval	22 DA-C	22 DA-C	22 DA-C	22 DA-C	36 DA-C			
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	60 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	41 DE-1			
ARM Action Codes				AS	EC			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	36*	37*	38*	39* dAS	40*
4 Roundup Powermax	32 oz/a		A	100 -	100 a	100 a	100 a	85 b
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
Resolve	1 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
5 Roundup Powermax	32 oz/a		A	100 -	90 a	100 a	86 a	87 b
KFD-544-01	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
Resolve	1 oz/a		D					
N Pak AMS	2.5 % v/v		D					
6 Roundup Powermax	32 oz/a		A	100 -	100 a	85 a	100 a	83 b
Audit 1:1	1 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Interline	32 oz/a		C					
Resolve	1 oz/a		C					
N Pak AMS	2.5 % v/v		C					
LSD P=.05					38.2	11.1	18.4 - 18.8	7.4
Standard Deviation				0.0	21.0	6.1	0.5t	3.9
CV				0.0	27.97	7.58	6.34t	4.56
Levene's F^				.	1.653	2.133	0.533	0.909
Levene's Prob(F)				.	0.22	0.131	0.747	0.495
Skewness^				.	-0.6145	0.0	-1.3829*	-0.2194
Kurtosis^				.	3.5449*	4.8663*	4.8663*	1.1577
Replicate F				0.000	0.455	1.000	1.000	0.732
Replicate Prob(F)				1.0000	0.6472	0.4019	0.4019	0.5104
Treatment F				0.000	10.841	128.333	150.815	4.662
Treatment Prob(F)				1.0000	0.0009	0.0001	0.0001	0.0309

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	AMBEL	CHEAL	AMARE	ABUTH			
Pest Scientific Name	Ambrosia trifida	Ambrosia artemi>	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>			
Pest Name	Giant ragweed	Common ragweed	common lambsqua>	Redroot pigweed	velvetleaf			
Crop Type, Code								
Crop Name								
Rating Date	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021			
Part Rated								
Rating Type	Contro	Contro	Contro	Contro	Contro			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size								
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			
Rating Timing								
Days After First/Last Applic.	248 31	248 31	248 31	248 31	248 31			
Trt-Eval Interval	36 DA-C	36 DA-C	36 DA-C	36 DA-C	36 DA-C			
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1			
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1			
ARM Action Codes	EC	AS						
Number of Decimals		0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	41*	42* dAS	43*	44*	45*

1 UTC				0.0	0 c	0 b	0 -	0 -
2 Roundup Powermax	32 oz/a		A	86.7 -	100 a	99 a	100 -	100 -
Weedmaster	32 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Roundup Powermax	32 oz/a		B					
Preview	19.7 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Intermoc	64 oz/a		C					
N Pak AMS	2.5 % v/v		C					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					
3 Roundup Powermax	32 oz/a		A	81.0 -	100 a	90 a	100 -	100 -
Audit 1:1	0.75 oz/a		A					
N Pak AMS	2.5 % v/v		A					
Intermoc	64 oz/a		B					
N Pak AMS	2.5 % v/v		B					
Interline	32 oz/a		D					
N Pak AMS	2.5 % v/v		D					

The Ohio State University

UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	AMBEL	CHEAL	AMARE	ABUTH				
Pest Scientific Name	Ambrosia trifida	Ambrosia artemi>	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>				
Pest Name	Giant ragweed	Common ragweed	common lambsqua>	Redroot pigweed	velvetleaf				
Crop Type, Code									
Crop Name									
Rating Date	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021				
Part Rated									
Rating Type	Contro	Contro	Contro	Contro	Contro				
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100				
Sample Size									
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				
Rating Timing									
Days After First/Last Applic.	248 31	248 31	248 31	248 31	248 31				
Trt-Eval Interval	36 DA-C	36 DA-C	36 DA-C	36 DA-C	36 DA-C				
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1				
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1				
ARM Action Codes	EC	AS							
Number of Decimals		0	0	0	0				
Trt No. Name	Treatment	Other Rate	Other Rate Unit Code	Appl Code	41*	42* dAS	43*	44*	45*
4	Roundup Powermax	32 oz/a	A		85.0 -	100 a	100 a	100 -	100 -
	Audit 1:1	0.75 oz/a	A						
	N Pak AMS	2.5 % v/v	A						
	Intermoc	64 oz/a	B						
	Resolve	1 oz/a	B						
	N Pak AMS	2.5 % v/v	B						
	Interline	32 oz/a	D						
	N Pak AMS	2.5 % v/v	D						
5	Roundup Powermax	32 oz/a	A		81.0 -	100 a	100 a	100 -	100 -
	KFD-544-01	0.75 oz/a	A						
	N Pak AMS	2.5 % v/v	A						
	Intermoc	64 oz/a	B						
	N Pak AMS	2.5 % v/v	B						
	Interline	32 oz/a	D						
	Resolve	1 oz/a	D						
	N Pak AMS	2.5 % v/v	D						
6	Roundup Powermax	32 oz/a	A		83.3 -	79 b	85 a	100 -	100 -
	Audit 1:1	1 oz/a	A						
	N Pak AMS	2.5 % v/v	A						
	Interline	32 oz/a	C						
	Resolve	1 oz/a	C						
	N Pak AMS	2.5 % v/v	C						
LSD P=.05					9.18	6.9 - 7.5	10.5	.	.
Standard Deviation					4.88	0.2t	5.8	0.0	0.0
CV					5.85	2.52t	7.31	0.0	0.0
Levene's F^					0.525	0.789	0.381	.	.
Levene's Prob(F)					0.72	0.577	0.852	.	.
Skewness^					0.8588	1.3038*	0.5661	.	.
Kurtosis^					0.1675	4.8663*	0.4702	.	.
Replicate F					4.317	1.000	2.527	0.000	0.000
Replicate Prob(F)					0.0535	0.4019	0.1293	1.0000	1.0000
Treatment F					0.781	958.625	138.251	0.000	0.000
Treatment Prob(F)					0.5679	0.0001	0.0001	1.0000	1.0000

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	POLPY	SIDSP
Pest Scientific Name	Persicaria pens>	Sida spinosa
Pest Name	annual smartweed	Prickly sida
Crop Type, Code		
Crop Name		
Rating Date	Jul-12-2021	Jul-12-2021
Part Rated		
Rating Type	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100
Sample Size		
Number of Subsamples	1	1
Data Entry Date	Jul-13-2021	Jul-13-2021
Rating Timing		
Days After First/Last Applic.	248 31	248 31
Trt-Eval Interval	36 DA-C	36 DA-C
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	41 DE-1	41 DE-1
ARM Action Codes	AS	
Number of Decimals	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	46* dAS	47*
1	UTC				0 b	0 b
2	Roundup Powermax	32 oz/a		A	100 a	95 a
	Weedmaster	32 oz/a		A		
	N Pak AMS	2.5 % v/v		A		
	Roundup Powermax	32 oz/a		B		
	Preview	19.7 oz/a		B		
	N Pak AMS	2.5 % v/v		B		
	Intermoc	64 oz/a		C		
	N Pak AMS	2.5 % v/v		C		
	Interline	32 oz/a		D		
	N Pak AMS	2.5 % v/v		D		
3	Roundup Powermax	32 oz/a		A	95 a	83 a
	Audit 1:1	0.75 oz/a		A		
	N Pak AMS	2.5 % v/v		A		
	Intermoc	64 oz/a		B		
	N Pak AMS	2.5 % v/v		B		
	Interline	32 oz/a		D		
	N Pak AMS	2.5 % v/v		D		

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	POLPY	SIDSP
Pest Scientific Name	Persicaria pens>	Sida spinosa
Pest Name	annual smartweed	Prickly sida

Crop Type, Code		
Crop Name		
Rating Date	Jul-12-2021	Jul-12-2021
Part Rated		
Rating Type	Contro	Contro
Rating Unit/Min/Max	% 0 100	% 0 100

Sample Size		
Number of Subsamples	1	1
Data Entry Date	Jul-13-2021	Jul-13-2021
Rating Timing		
Days After First/Last Applic.	248 31	248 31
Trt-Eval Interval	36 DA-C	36 DA-C
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	41 DE-1	41 DE-1
ARM Action Codes	AS	
Number of Decimals	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	46* dAS	47*
4	Roundup Powermax	32 oz/a		A	100 a	88 a
	Audit 1:1	0.75 oz/a		A		
	N Pak AMS	2.5 % v/v		A		
	Intermoc	64 oz/a		B		
	Resolve	1 oz/a		B		
	N Pak AMS	2.5 % v/v		B		
	Interline	32 oz/a		D		
	N Pak AMS	2.5 % v/v		D		
5	Roundup Powermax	32 oz/a		A	100 a	82 a
	KFD-544-01	0.75 oz/a		A		
	N Pak AMS	2.5 % v/v		A		
	Intermoc	64 oz/a		B		
	N Pak AMS	2.5 % v/v		B		
	Interline	32 oz/a		D		
	Resolve	1 oz/a		D		
	N Pak AMS	2.5 % v/v		D		
6	Roundup Powermax	32 oz/a		A	100 a	80 a
	Audit 1:1	1 oz/a		A		
	N Pak AMS	2.5 % v/v		A		
	Interline	32 oz/a		C		
	Resolve	1 oz/a		C		
	N Pak AMS	2.5 % v/v		C		
LSD P=.05					6.6 - 6.6	10.5
Standard Deviation					0.2t	5.7
CV					2.18t	8.05
Levene's F^					0.533	0.702
Levene's Prob(F)					0.747	0.633
Skewness^					-1.3829*	-0.0012
Kurtosis^					4.8663*	0.1335
Replicate F					1.000	1.050
Replicate Prob(F)					0.4019	0.3854
Treatment F					1276.450	113.689
Treatment Prob(F)					0.0001	0.0001

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UPL FALL CORN

Trial ID: 21FALLCORN1a Location: Western Branch F-9 West Trial Year: 2021
 Protocol ID: 21FALLCORN Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

STEME, Stellaria media, Common chickweed = US
 LAMPU, Lamium purpureum, Purple deadnettle = US
 TAROF, Taraxacum officinale, Blowball = US
 VERAG, Veronica agrestis, Field speedwell = US
 CARPE, Cardamine pennsylvanica, Pennsylvania bittercress = US
 AMBTR, Ambrosia trifida, Giant ragweed = US
 CHEAL, Chenopodium album, common lambsquarters = US
 POLPY, Persicaria pennsylvanica, annual smartweed = US
 ERICA, Erigeron canadensis, Canada horseweed = US
 SETFA, Setaria faberi, Giant foxtail = US
 AMBEL, Ambrosia artemisiifolia, Common ragweed = US
 AMARE, Amaranthus retroflexus, Redroot pigweed = US
 ABUTH, Abutilon theophrasti, velvetleaf = US
 SIDSP, Sida spinosa, Prickly sida = US

Rating Type

Contro = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

Plant-Eval Interval

-27 DP-1 = 1 ZEAMX May-13-2021
 -13 DP-1 = 1 ZEAMX May-13-2021
 0 DP-1 = 1 ZEAMX May-13-2021
 19 DP-1 = 1 ZEAMX May-13-2021
 32 DP-1 = 1 ZEAMX May-13-2021
 46 DP-1 = 1 ZEAMX May-13-2021
 60 DP-1 = 1 ZEAMX May-13-2021

ARM Action Codes

AS = Automatic square root transformation of X+0.5
 EC = Do not analyze untreated check, while still reporting treatment mean on AOV Means Table
 ER1 = Excluded replicate 1
 AA = Automatic arcsine square root % transformation
 ET6 = Excluded treatment 6
 ET5 = Excluded treatment 5