

# University of Tennessee

## Evaluation of Envoke plus AMV6146 Mixtures for Greater Application Flexibility in Cotton

Trial ID: 23HD007USGC12\_1  
 Protocol ID: 23HD007US Location: Trial Year: 2023  
 Project ID: 007 Project ID 2: Project ID 3:  
 Study Director: Greg Armel, Ph.D. Sponsor Contact:  
 Investigator:

Reps: 4 Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check								101	203	308	401
2	Envoke 75 WG	75 WG		0.15 oz wt/a	A	1-2 leaf cotton	EAPOCR	0.1498 g/mx	102	210	307	410
	Induce	90 L		0.25 % v/v	A	1-2 leaf cotton	EAPOCR	4.999 mL/mx				
3	Envoke 75 WG	75 WG		0.15 oz wt/a	A	1-2 leaf cotton	EAPOCR	0.1498 g/mx	103	208	301	406
	AMV6146	1 L		1 pt/a	A	1-2 leaf cotton	EAPOCR	16.67 mL/mx				
	Induce	90 L		0.25 % v/v	A	1-2 leaf cotton	EAPOCR	4.999 mL/mx				
4	Envoke 75 WG	75 WG		0.15 oz wt/a	A	1-2 leaf cotton	EAPOCR	0.1498 g/mx	104	207	303	404
	AMV6146	1 L		2 pt/a	A	1-2 leaf cotton	EAPOCR	33.33 mL/mx				
	Induce	90 L		0.25 % v/v	A	1-2 leaf cotton	EAPOCR	4.999 mL/mx				
5	Envoke 75 WG	75 WG		0.15 oz wt/a	B	3-4 leaf cotton	MIPOCR	0.1498 g/mx	105	204	302	407
	Induce	90 L		0.25 % v/v	B	3-4 leaf cotton	MIPOCR	4.999 mL/mx				
6	Envoke 75 WG	75 WG		0.15 oz wt/a	B	3-4 leaf cotton	MIPOCR	0.1498 g/mx	106	201	304	403
	AMV6146	1 L		1 pt/a	B	3-4 leaf cotton	MIPOCR	16.67 mL/mx				
	Induce	90 L		0.25 % v/v	B	3-4 leaf cotton	MIPOCR	4.999 mL/mx				
7	Envoke 75 WG	75 WG		0.15 oz wt/a	B	3-4 leaf cotton	MIPOCR	0.1498 g/mx	107	206	309	402
	AMV6146	1 L		2 pt/a	B	3-4 leaf cotton	MIPOCR	33.33 mL/mx				
	Induce	90 L		0.25 % v/v	B	3-4 leaf cotton	MIPOCR	4.999 mL/mx				
8	Envoke 75 WG	75 WG		0.15 oz wt/a	C	5+ leaf cotton	LAPOCR	0.1498 g/mx	108	205	306	405
	Induce	90 L		0.25 % v/v	C	5+ leaf cotton	LAPOCR	4.999 mL/mx				
9	Envoke 75 WG	75 WG		0.15 oz wt/a	C	5+ leaf cotton	LAPOCR	0.1498 g/mx	109	202	305	409
	AMV6146	1 L		1 pt/a	C	5+ leaf cotton	LAPOCR	16.67 mL/mx				
	Induce	90 L		0.25 % v/v	C	5+ leaf cotton	LAPOCR	4.999 mL/mx				
10	Envoke 75 WG	75 WG		0.15 oz wt/a	C	5+ leaf cotton	LAPOCR	0.1498 g/mx	110	209	310	408
	AMV6146	1 L		2 pt/a	C	5+ leaf cotton	LAPOCR	33.33 mL/mx				
	Induce	90 L		0.25 % v/v	C	5+ leaf cotton	LAPOCR	4.999 mL/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
1.685	g	Envoke 75 WG	75	%AW/W	WG	
56.244	mL	Induce	90	%	L	
187.500	mL	AMV6146	1	%AW/W	L	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

## AMV5233D in Enlist/LL cotton - Academic Awareness

Trial ID: 23HD050USGC52\_1  
 Protocol ID: 23HD050US Location: Trial Year: 2023  
 Project ID: 050 Project ID 2: Project ID 3:  
 Study Director: Rich Zollinger Sponsor Contact: Gary Cundiff, Ph.D.  
 Investigator: Rich Zollinger

Reps: 4 Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Liberty 280 SL AMS	280 SL 100 D		32 fl oz/a 3 lb/a	B B		2-4" weeds 2-4" weeds	EPOST EPOST	33.33 mL/mx 47.93 g/mx	101	205	306	409
2	AMV5233D COC AMS	2.57 SL 100 SL 100 D		24 fl oz/a 1 % v/v 3 lb/a	B B B		2-4" weeds 2-4" weeds 2-4" weeds	EPOST EPOST EPOST	25.0 mL/mx 20.0 mL/mx 47.93 g/mx	102	206	308	404
3	AMV5233D COC AMS	2.57 SL 100 SL 100 D		32 fl oz/a 1 % v/v 3 lb/a	B B B		2-4" weeds 2-4" weeds 2-4" weeds	EPOST EPOST EPOST	33.33 mL/mx 20.0 mL/mx 47.93 g/mx	103	202	307	402
4	AMV5233D COC AMS AMV5233D COC AMS	2.57 SL 100 SL 100 D 2.57 SL 100 SL 100 D		24 fl oz/a 1 % v/v 3 lb/a 24 fl oz/a 1 % v/v 3 lb/a	B B B C C C		2-4" weeds 2-4" weeds 2-4" weeds @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic.	EPOST EPOST EPOST POST POST POST	25.0 mL/mx 20.0 mL/mx 47.93 g/mx 25.0 mL/mx 20.0 mL/mx 47.93 g/mx	104	210	303	410
5	AMV5233D COC AMS AMV5233D COC AMS	2.57 SL 100 SL 100 D 2.57 SL 100 SL 100 D		32 fl oz/a 1 % v/v 3 lb/a 32 fl oz/a 1 % v/v 3 lb/a	B B B C C C		2-4" weeds 2-4" weeds 2-4" weeds @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic.	EPOST EPOST EPOST POST POST POST	33.33 mL/mx 20.0 mL/mx 47.93 g/mx 33.33 mL/mx 20.0 mL/mx 47.93 g/mx	105	207	309	408
6	AMV5233D Enlist One 3.8 SL Roundup PowerMax 3 4.8 SL COC AMS	2.57 SL 3.8 SL 4.8 SL 100 SL 100 D		32 fl oz/a 2 pt/a 30 fl oz/a 1 % v/v 3 lb/a	B B B B B		2-4" weeds 2-4" weeds 2-4" weeds 2-4" weeds 2-4" weeds	EPOST EPOST EPOST EPOST EPOST	33.33 mL/mx 33.33 mL/mx 31.25 mL/mx 20.0 mL/mx 47.93 g/mx	106	209	302	401
7	COTORAN 4L CAPAROL 4L AMV5233D COC AMS	4 F 4 F 2.57 SL 100 SL 100 D		24 oz/a 24 oz/a 32 fl oz/a 1 % v/v 3 lb/a	A A C C C		PRE PRE @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic.	PRE PRE POST POST POST	25.0 mL/mx 25.0 mL/mx 33.33 mL/mx 20.0 mL/mx 47.93 g/mx	107	208	305	406
8	COTORAN 4L WARRANT AMV5233D Enlist One 3.8 SL COC AMS	4 F 3 CS 2.57 SL 3.8 SL 100 L 100 D		24 oz/a 32 oz/a 32 fl oz/a 2 pt/a 1 % v/v 3 lb/a	A A C C C C		PRE PRE @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic.	PRE PRE POST POST POST POST	25.0 mL/mx 33.33 mL/mx 33.33 mL/mx 33.33 mL/mx 20.0 mL/mx 47.93 g/mx	108	204	301	403
9	AMV5233D Enlist Duo 3.3 SL Dual II Magnum 7.64 EC COC AMS	2.57 SL 3.3 SL 7.64 EC 100 L 100 D		32 fl oz/a 4.75 pt/a 1 pt/a 1 % v/v 3 lb/a	B B B B B		2-4" weeds 2-4" weeds 2-4" weeds 2-4" weeds 2-4" weeds	EPOST EPOST EPOST EPOST EPOST	33.33 mL/mx 79.17 mL/mx 16.67 mL/mx 20.0 mL/mx 47.93 g/mx	109	203	310	407
10	AMV5233D Enlist Duo 3.3 SL Dual II Magnum 7.64 EC COC AMS	2.57 SL 3.3 SL 7.64 EC 100 L 100 D		32 fl oz/a 4.75 pt/a 1 pt/a 1 % v/v 3 lb/a	B C C C C		2-4" weeds @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic. @ 20 DA-B applic.	EPOST POST POST POST POST	33.33 mL/mx 79.17 mL/mx 16.67 mL/mx 20.0 mL/mx 47.93 g/mx	110	201	304	405

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
41.667	mL	Liberty 280 SL	280	gA/L	SL	
718.955	g	AMS	100	%	D	
427.083	mL	AMV5233D	2.57	LBA/GAL	SL	
199.978	mL	COC	100	%	SL	
83.333	mL	Enlist One 3.8 SL	3.8	LBA/GAL	SL	
39.062	mL	Roundup PowerMax 3 4.8 SL	4.8	LBAE/GAL	SL	

# University of Tennessee

## Showcasing Temper, Temper HL, and Temper More in Cotton

Trial ID: 22007223\_2  
 Protocol ID:                      Location:      Trial Year: 2022  
 Project ID: Glufosinate - Temper More      Project ID 2: Cotton      Project ID 3: Showcase  
 Study Director: Zac Carpenter      Sponsor Contact:  
 Investigator: Zac Carpenter

Reps: 4                      Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC                      Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Nontreated Check												
2	Cotoran 4L	4 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	102	203	304	402
3	Cotoran 4L	4 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	103	202	301	405
	Temper	280 L		31 fl oz/a		B	3-4" Weeds	POSPOS	32.29 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				
4	Cotoran 4L	4 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	104	201	302	401
	Temper HL	350 L		24.8 fl oz/a		B	3-4" Weeds	POSPOS	25.83 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				
5	Cotoran 4L	4 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	105	204	305	403
	Temper More	4.8 L		41 fl oz/a		B	3-4" Weeds	POSPOS	42.71 mL/mx				
	Poweral	90 SL		8 fl oz/a		B	3-4" Weeds	POSPOS	8.333 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
250.000	mL	Cotoran 4L	4	LBA/GAL	L	
40.365	mL	Temper	280	g/L	L	
152.778	g	Ammonium Sulfate	100	%	SG	
32.292	mL	Temper HL	350	g/L	L	
53.385	mL	Temper More	4.8	LBA/GAL	L	
10.417	mL	Poweral	90	%	SL	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.  
 \* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

Type PG Year Cty Pl.No. Ver. Rev. Cty Reg No.	GEP:
Trial ID: MKD H 2023 US F62 A 01.0 US UTN 001	3D Crop/LWA: N No
Title: ZIDUA SC RATE IN COTTON	Crop Destruct Required?: N None / no
GEP Guideline:	
Short Trial ID: H23F62A-UTN001 Licensee: Dr. Larry Steckel	

Reps: 4 Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt	Product/Entry Name	Form	Product Conc	Prod FO Rate	Unit	Appl Code	Appl Time	Amt Product to Measure	Rep			
									1	2	3	4
1	CHECK								101	204	302	404
2	ZIDUA SC	500.0 SC	3.25 fl oz/a	A	NA1				102	203	301	406
3	ZIDUA SC	500.0 SC	6.5 fl oz/a	A	NA1				103	207	305	403
4	ZIDUA SC	500.0 SC	3.25 fl oz/a	B	NA3				104	202	306	405
5	ZIDUA SC	500.0 SC	6.5 fl oz/a	B	NA3				105	206	304	407
6	ZIDUA SC	500.0 SC	3.25 fl oz/a	C	NA3			3.385 mL/mx	106	201	307	402
7	ZIDUA SC	500.0 SC	6.5 fl oz/a	C	NA3			6.77 mL/mx	107	205	303	401

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Code Com+Number+Recipe Code+P	Product/Entry Name	Form Conc	Conc Unit	FO	Batch/Lot Num / Seedlot
12.694	mL	BAS82001H	ZIDUA SC	500	GAL	SC	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.

# University of Tennessee

Type PG Year Cty Pl.No. Ver. Rev. Cty Reg No.  
 Trial ID: MKD H 2023 US F61 B 01.0 US UTN 001 GEP:  
 Title: ENGENIA PRE/POST PROGRAMMING IN COTTON 3D Crop/LWA: N No  
 GEP Guideline: Crop Destruct Required?: N None / no  
 Short Trial ID: H23F61B-UTN001 Licensee: Dr. Larry Steckel

Reps: 4 Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt	Product/Entry Name	Form	Product Conc	Prod FO Rate	Appl Unit	Appl Code	Appl Time	Amt Product to Measure	Rep			
									1	2	3	4
1	CHECK								101	206	313	411
2	COTORAN 4 L	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx	102	204	302	403
	CAPAROL	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx				
	ENGENIA	600.0 SL	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	B	NA2			8.332 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	B	NA2			31.25 mL/mx				
3	COTORAN 4 L	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx	103	201	306	405
	CAPAROL	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx				
	ENGENIA	600.0 SL	12.8 fl oz/a	C	NA3			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	C	NA3			8.332 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	C	NA3			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	C	NA3			31.25 mL/mx				
4	COTORAN 4 L	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx	104	210	309	401
	CAPAROL	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx				
	ENGENIA	600.0 SL	12.8 fl oz/a	A	VA			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	A	VA			8.332 mL/mx				
	LIBERTY 280 SL	281.8 SL	36.0 fl oz/a	B	NA2			37.5 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	B	NA2			31.25 mL/mx				
5	COTORAN 4 L	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx	105	207	301	406
	CAPAROL	480.0 SC	24.0 fl oz/a	A	VA			25.0 mL/mx				
	ENGENIA	600.0 SL	12.8 fl oz/a	A	VA			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	A	VA			8.332 mL/mx				
	LIBERTY 280 SL	281.8 SL	36.0 fl oz/a	C	NA3			37.5 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	C	NA3			13.33 mL/mx				
ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	C	NA3			31.25 mL/mx					
6	WARRANT	360.0 CS	48.0 fl oz/a	A	VA			49.99 mL/mx	106	213	304	407
	ENGENIA	600.0 SL	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	B	NA2			8.332 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	B	NA2			31.25 mL/mx				
7	WARRANT	360.0 CS	48.0 fl oz/a	A	VA			49.99 mL/mx	107	209	312	413
	ENGENIA	600.0 SL	12.8 fl oz/a	C	NA3			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	C	NA3			8.332 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	C	NA3			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	C	NA3			31.25 mL/mx				
8	WARRANT	360.0 CS	48.0 fl oz/a	A	VA			49.99 mL/mx	108	211	310	409
	ENGENIA	600.0 SL	12.8 fl oz/a	A	VA			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	A	VA			8.332 mL/mx				
	LIBERTY 280 SL	281.8 SL	36.0 fl oz/a	B	NA2			37.5 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	B	NA2			13.33 mL/mx				
ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	B	NA2			31.25 mL/mx					
9	WARRANT	360.0 CS	48.0 fl oz/a	A	VA			49.99 mL/mx	109	208	307	408
	ENGENIA	600.0 SL	12.8 fl oz/a	A	VA			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	A	VA			8.332 mL/mx				
	LIBERTY 280 SL	281.8 SL	36.0 fl oz/a	C	NA3			37.5 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	C	NA3			13.33 mL/mx				
ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	C	NA3			31.25 mL/mx					
10	BRAKE	144.0 SL	16.0 fl oz/a	A	VA			16.66 mL/mx	110	202	308	402
	ENGENIA	600.0 SL	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	B	NA2			8.332 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	B	NA2			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	B	NA2			31.25 mL/mx				
11	BRAKE	144.0 SL	16.0 fl oz/a	A	VA			16.66 mL/mx	111	203	305	410
	ENGENIA	600.0 SL	12.8 fl oz/a	C	NA3			13.33 mL/mx				
	SENTRIS	703.0 SL	8.0 fl oz/a	C	NA3			8.332 mL/mx				
	OUTLOOK	720.0 EC	12.8 fl oz/a	C	NA3			13.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	C	NA3			31.25 mL/mx				

# University of Tennessee

Type PG Year Cty Pl.No. Ver. Rev. Cty Reg No.  
 Trial ID: MKD H 2023 US F61 B 01.0 US UTN 001 GEP:  
 Title: ENGENIA PRE/POST PROGRAMMING IN COTTON 3D Crop/LWA: N No  
 GEP Guideline: Crop Destruct Required?: N None / no  
 Short Trial ID: H23F61B-UTN001 Licensee: Dr. Larry Steckel

Reps: 4 Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt	Product/Entry Name	Form Conc	Product FO Rate	Prod Unit	Appl Code	Appl Time	Amt Product to Measure	Rep			
								1	2	3	4
12	BRAKE	144.0 SL	16.0 fl oz/a	A	VA	16.66 mL/mx	112	205	303	412	
	ENGENIA	600.0 SL	12.8 fl oz/a	A	VA	13.33 mL/mx					
	SENTRIS	703.0 SL	8.0 fl oz/a	A	VA	8.332 mL/mx					
	LIBERTY 280 SL	281.8 SL	36.0 fl oz/a	B	NA2	37.5 mL/mx					
	OUTLOOK	720.0 EC	12.8 fl oz/a	B	NA2	13.33 mL/mx					
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	B	NA2	31.25 mL/mx					
13	BRAKE	144.0 SL	16.0 fl oz/a	A	VA	16.66 mL/mx	113	212	311	404	
	ENGENIA	600.0 SL	12.8 fl oz/a	A	VA	13.33 mL/mx					
	SENTRIS	703.0 SL	8.0 fl oz/a	A	VA	8.332 mL/mx					
	LIBERTY 280 SL	281.8 SL	36.0 fl oz/a	C	NA3	37.5 mL/mx					
	OUTLOOK	720.0 EC	12.8 fl oz/a	C	NA3	13.33 mL/mx					
	ROUNDUP POWERMAX3	575.0 SL	30.0 fl oz/a	C	NA3	31.25 mL/mx					

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Code Com+Number+Recipe Code+P	Product/Entry Name	Form Conc	Conc Unit	FO	Batch/Lot Num / Seedlot
124.986	mL	BAS28502H	COTORAN 4 L	480	GA/L	SC	
124.986	mL	BAS15501H	CAPAROL	480	GA/L	SC	
199.978	mL	BAS18322H	ENGENIA	600.0	GA/L	SL	
124.986	mL	BAS92961S	SENTRIS	703.0	GA/L	SL	
199.978	mL	BAS65611H	OUTLOOK	720.0	GA/L	EC	
468.699	mL	BAS68334H	ROUNDUP POWERMAX3	575.0	GA/L	SL	
281.219	mL	BAS100025H	LIBERTY 280 SL	281.8	GA/L	SL	
249.973	mL	BAS9066AH	WARRANT	360.0	GA/L	CS	
83.324	mL	BAS94722H	BRAKE	144.0	GA/L	SL	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

# University of Tennessee

Type PG Year Cty Pl.No. Ver. Rev. Cty Reg No.  
 Trial ID: MKD H 2023 US F43 A 01.0 US UTN 001 GEP:  
 Title: L-GA / CROP SAFETY / COTTON / OUTLOOK FOCUS 3D Crop/LWA: N No  
 GEP Guideline: Crop Destruct Required?: F Full / yes  
 Short Trial ID: H23F43A-UTN001 Licensee: Dr. Larry Steckel

Reps: 4 Plots: 6.33 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.99 L)

Trt	Product/Entry Name	Form Conc	Product FO	Prod Rate	Appl Unit	Appl Code	Appl Time	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	CHECK - WEED FREE								101	207	305	410
2	BAS 101005H AMS2000	211.0 SL 100.0 SG	58.0 fl oz/a 3.0 lb/a	A A	NA3 NA3			60.41 mL/mx 47.93 g/mx	102	204	306	408
3	SURMISE 5 AMS2000	551.2 SL 100.0 SG	43.0 fl oz/a 3.0 lb/a	A A	NA3 NA3			44.79 mL/mx 47.93 g/mx	103	201	302	407
4	ROUNDUP POWERMAX3 AMS2000	575.0 SL 100.0 SG	60.0 fl oz/a 3.0 lb/a	A A	NA3 NA3			62.49 mL/mx 47.93 g/mx	104	211	310	406
5	OUTLOOK AMS2000	720.0 EC 100.0 SG	25.6 fl oz/a 3.0 lb/a	A A	NA3 NA3			26.66 mL/mx 47.93 g/mx	105	208	311	402
6	BAS 101005H OUTLOOK AMS2000	211.0 SL 720.0 EC 100.0 SG	58.0 fl oz/a 25.6 fl oz/a 3.0 lb/a	A A A	NA3 NA3 NA3			60.41 mL/mx 26.66 mL/mx 47.93 g/mx	106	210	309	411
7	SURMISE 5 OUTLOOK AMS2000	551.2 SL 720.0 EC 100.0 SG	43.0 fl oz/a 25.6 fl oz/a 3.0 lb/a	A A A	NA3 NA3 NA3			44.79 mL/mx 26.66 mL/mx 47.93 g/mx	107	209	303	401
8	BAS 101005H ROUNDUP POWERMAX3 AMS2000	211.0 SL 575.0 SL 100.0 SG	58.0 fl oz/a 60.0 fl oz/a 3.0 lb/a	A A A	NA3 NA3 NA3			60.41 mL/mx 62.49 mL/mx 47.93 g/mx	108	203	308	404
9	SURMISE 5 ROUNDUP POWERMAX3 AMS2000	551.2 SL 575.0 SL 100.0 SG	43.0 fl oz/a 60.0 fl oz/a 3.0 lb/a	A A A	NA3 NA3 NA3			44.79 mL/mx 62.49 mL/mx 47.93 g/mx	109	206	304	409
10	BAS 101005H OUTLOOK ROUNDUP POWERMAX3 AMS2000	211.0 SL 720.0 EC 575.0 SL 100.0 SG	58.0 fl oz/a 25.6 fl oz/a 60.0 fl oz/a 3.0 lb/a	A A A A	NA3 NA3 NA3 NA3			60.41 mL/mx 26.66 mL/mx 62.49 mL/mx 47.93 g/mx	110	205	307	405
11	SURMISE 5 OUTLOOK ROUNDUP POWERMAX3 AMS2000	551.2 SL 720.0 EC 575.0 SL 100.0 SG	43.0 fl oz/a 25.6 fl oz/a 60.0 fl oz/a 3.0 lb/a	A A A A	NA3 NA3 NA3 NA3			44.79 mL/mx 26.66 mL/mx 62.49 mL/mx 47.93 g/mx	111	202	301	403

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Code Com+Number+Recipe Code+P	Product/Entry Name	Form Conc	Conc Unit	FO	Batch/Lot Num / Seedlot
302.050	mL	BAS101005H	BAS 101005H	211.0	GA/L	SL	
599.129	g	BAS22000S	AMS2000	100.0	%	SG	
223.934	mL	BAS909023H	SURMISE 5	551.2	GA/L	SL	
390.582	mL	BAS68334H	ROUNDUP POWERMAX3	575.0	GA/L	SL	
166.648	mL	BAS65611H	OUTLOOK	720.0	GA/L	EC	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

# University of Tennessee

Trial ID: 2023CORN  
 Protocol ID: Location: Trial Year: 2023  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sponsor Contact:  
 Investigator:

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED										101	205	301	409
2	WARRANT ATRAZINE 4L	3 CS 4 EC		1.5 qt/a 2 qt/a		A A	PRE PRE	PRE PRE	50.0 mL/mx 66.67 mL/mx		102	204	311	413
3	CORVUS ATRAZINE	2.63 SL 4 EC		5.6 oz/a 1 qt/a		A A	PRE PRE	PRE PRE	5.833 mL/mx 33.33 mL/mx		103	202	304	406
4	TRIVOLT ATRAZINE	3.65 SC 4 EC		20 oz/a 1 qt/a		A A	PRE PRE	PRE PRE	20.83 mL/mx 33.33 mL/mx		104	207	308	411
5	TRIVOLT ATRAZINE ROUNDUP POWERMAX 3 ATRAZINE WARRANT N-PAK AMS LIQUID	3.65 SC 4 EC 5.88 SL 4 EC 3 CS L		12 oz/a 1 qt/a 30 oz/a 1 qt/a 1.5 qt/a 2.5 % v/v		A A B B B B	PRE PRE V4 V4 V4 V4	PRE PRE EPOST EPOST EPOST EPOST	12.5 mL/mx 33.33 mL/mx 31.25 mL/mx 33.33 mL/mx 50.0 mL/mx 49.99 mL/mx		105	201	306	404
6	ACURON	3.44 ZC		2.5 qt/a		A	PRE	PRE	83.33 mL/mx		106	213	307	408
7	ROUNDUP POWERMAX 3 WARRANT ATRAZINE N-PAK AMS LIQUID	5.88 SL 3 CS 4 EC L		30 oz/a 1.5 qt/a 1 qt/a 2.5 % v/v		B B B B	V4 V4 V4 V4	EPOST EPOST EPOST EPOST	31.25 mL/mx 50.0 mL/mx 33.33 mL/mx 49.99 mL/mx		107	208	302	412
8	ROUNDUP POWERMAX 3 HARNESS MAX ATRAZINE N-PAK AMS LIQUID	5.88 SL 3.85 SC 4 EC L		30 oz/a 1.25 qt/a 1 qt/a 2.5 % v/v		B B B B	V4 V4 V4 V4	EPOST EPOST EPOST EPOST	31.25 mL/mx 41.67 mL/mx 33.33 mL/mx 49.99 mL/mx		108	203	310	405
9	ROUNDUP POWERMAX 3 CAPRENO ATRAZINE N-PAK AMS LIQUID	5.88 SL 3.45 SC 4 EC L		30 oz/a 3 oz/a 1 qt/a 2.5 % v/v		B B B B	V4 V4 V4 V4	EPOST EPOST EPOST EPOST	31.25 mL/mx 3.125 mL/mx 33.33 mL/mx 49.99 mL/mx		109	206	313	407
10	ROUNDUP POWERMAX 3 CAPRENO ATRAZINE WARRANT N-PAK AMS LIQUID	5.88 SL 3.45 SC 4 EC 3 CS L		30 oz/a 3 oz/a 1 qt/a 1.5 qt/a 2.5 % v/v		B B B B B	V4 V4 V4 V4 V4	EPOST EPOST EPOST EPOST EPOST	31.25 mL/mx 3.125 mL/mx 33.33 mL/mx 50.0 mL/mx 49.99 mL/mx		110	209	303	401
11	ROUNDUP POWERMAX 3 LAUDIS ATRAZINE N-PAK AMS LIQUID	5.88 SL 3.5 OD 4 EC L		30 oz/a 3 oz/a 1 qt/a 2.5 % v/v		B B B B	V4 V4 V4 V4	EPOST EPOST EPOST EPOST	31.25 mL/mx 3.125 mL/mx 33.33 mL/mx 49.99 mL/mx		111	212	305	402
12	ROUNDUP POWERMAX 3 LAUDIS ATRAZINE WARRANT N-PAK AMS LIQUID	5.88 SL 3.5 OD 4 EC 3 CS L		30 oz/a 3 oz/a 1 qt/a 1.5 qt/a 2.5 % v/v		B B B B B	V4 V4 V4 V4 V4	EPOST EPOST EPOST EPOST EPOST	31.25 mL/mx 3.125 mL/mx 33.33 mL/mx 50.0 mL/mx 49.99 mL/mx		112	211	312	410
13	HALEX GT ATRAZINE NIS N-PAK AMS LIQUID	4.39 SC 4 EC 100 SL L		1.8 qt/a 1 qt/a 0.25 % v/v 2.5 % v/v		B B B B	V4 V4 V4 V4	EPOST EPOST EPOST EPOST	60.0 mL/mx 33.33 mL/mx 4.999 mL/mx 49.99 mL/mx		113	210	309	403

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
312.499	mL	WARRANT	3	LB/GAL	CS	
83.333	mL	ATRAZINE 4L	4	LB/GAL	EC	
7.292	mL	CORVUS	2.63	LB/GAL	SL	
458.332	mL	ATRAZINE	4	LB/GAL	EC	
41.667	mL	TRIVOLT	3.65	LB/GAL	SC	
273.437	mL	ROUNDUP POWERMAX 3	5.88	LB/GAL	SL	
499.946	mL	N-PAK AMS LIQUID			L	
104.166	mL	ACURON	3.44	LB/GAL	ZC	



# University of Tennessee

**A23980B vs Acuron and Competitors PRE and PRE followed by POST for Crop Safety, Weed Control and Yield (ATZ Universities) [B=Medium & Fine]**

Trial ID: USSG0H4002023    Official Trial ID:  
 Protocol ID: HBI001B4-2023US    Location: University of Tennessee    Trial Year: 2023  
 Master Protocol ID:  
 Study Director: Scott Payne    Sponsor Contact: Mark Kitt    Conducted Under GEP: No  
 Investigator: James Holloway    Trial Origin: P public institution trial

Reps: 4    Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC    Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED CHECK								101	213	304	411
2	STOREN AATREX 4L	386.02 480	ZC SC	1900 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	70.16 mL/mx 24.94 mL/mx	102	206	307	413
3	STOREN AATREX 4L	386.02 480	ZC SC	2170 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	80.13 mL/mx 24.94 mL/mx	103	211	301	403
4	ACURON 3.44 ZC	411.93	ZC	2890 g ai/ha	A	PRE	PRE	100.0 mL/mx	104	212	302	406
5	RESICORE XL AATREX 4L	390.8 480	CS SC	2280 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	83.16 mL/mx 24.94 mL/mx	105	210	309	412
6	RESICORE XL AATREX 4L	390.8 480	CS SC	2740 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	99.94 mL/mx 24.94 mL/mx	106	209	312	402
7	TRIVOLT AATREX 4L	438 480	SC SC	560 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	18.22 mL/mx 24.94 mL/mx	107	201	306	409
8	TRIVOLT AATREX 4L	438 480	SC SC	640 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	20.83 mL/mx 24.94 mL/mx	108	202	303	405
9	MAVERICK CORN HERBICIDE AATREX 4L	244.3 480	SC SC	428 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	24.97 mL/mx 24.94 mL/mx	109	207	310	407
10	MAVERICK CORN HERBICIDE AATREX 4L	244.3 480	SC SC	571 g ai/ha 840 g ai/ha	A A	PRE PRE	PRE PRE	33.32 mL/mx 24.94 mL/mx	110	208	313	404
11	STOREN AATREX 4L AMSOL STOREN AATREX 4L ROUNDUP POWERMAX 3 HERBICIDE	386.02 480 SL 386.02 480 575	ZC SC SL ZC SC SL	948 g ai/ha 420 g ai/ha 2.5 % v/v 948 g ai/ha 420 g ai/ha 1180 g ae/ha	A A B B B B	PRE PRE V2 V2 V2 V2	PRE PRE V2 V2 V2 V2	35.01 mL/mx 12.47 mL/mx 50.0 mL/mx 35.01 mL/mx 12.47 mL/mx 29.25 mL/mx	111	205	308	401
12	STOREN AATREX 4L AMSOL STOREN AATREX 4L ROUNDUP POWERMAX 3 HERBICIDE	386.02 480 SL 386.02 480 575	ZC SC SL ZC SC SL	1080 g ai/ha 420 g ai/ha 2.5 % v/v 1080 g ai/ha 420 g ai/ha 1180 g ae/ha	A A B B B B	PRE PRE V2 V2 V2 V2	PRE PRE V2 V2 V2 V2	39.88 mL/mx 12.47 mL/mx 50.0 mL/mx 39.88 mL/mx 12.47 mL/mx 29.25 mL/mx	112	204	305	408
13	STOREN AATREX 4L AMSOL NIS AATREX 4L HALEX GT 4.38 CS	386.02 480 SL SL 480 525	ZC SC SL SL SC CS	1080 g ai/ha 420 g ai/ha 2.5 % v/v 0.25 % v/v 561 g ai/ha 2460 g ai/ha	A A B B B B	PRE PRE V2 V2 V2 V2	PRE PRE V2 V2 V2 V2	39.88 mL/mx 12.47 mL/mx 50.0 mL/mx 5.0 mL/mx 16.66 mL/mx 66.79 mL/mx	113	203	311	410

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
424.929	mL	STOREN	386.02	gA/L	ZC	
348.228	mL	AATREX 4L	480	gA/L	SC	
125.006	mL	ACURON 3.44 ZC	411.93	gA/L	ZC	
228.878	mL	RESICORE XL	390.8	gA/L	CS	
48.816	mL	TRIVOLT	438	gA/L	SC	
72.861	mL	MAVERICK CORN HERBICIDE	244.3	gA/L	SC	
187.500	mL	AMSOL			SL	
73.131	mL	ROUNDUP POWERMAX 3 HERBICIDE	575	gAE/L	SL	
6.250	mL	NIS			SL	
83.489	mL	HALEX GT 4.38 CS	525	gA/L	CS	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.  
 \* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

Protocol No.: NA23T9E006H	Trial ID: T9E006h - TN
Discipline: HERBICIDE	Trial Name:
DED#: T9E	Main Chem: acetochlor + topramezone + clopyralid
Trial Category: EFFICACY/CROP TOL	Prod. Dev. Stage: DEVELOPMENT
Trial Type: NATURAL-RES	Site Type: CROPS,CEREAL
Plan Year: 2023	Country:

Title: ATC + Resicore XL university COI endorsement trials (Southern)

Business Unit: US NORTHERN CROPS ARM License Holder: Dr. Larry Steckel

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 gal/A Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt Num	Appl Code Name	Form Conc	Form Type	Rate	Unit	Appl Timing	Amt Product to Measure	Rep 1	2	3	4
1	A RIMSULFURON	250	WG	17.5 g ai/ha		AT PLANT	0.9978 g/mx	101	204	303	404
	A HARMONY SG	500	SG	17.5 g ai/ha		AT PLANT	0.4989 g/mx				
	B Resicore XL	390.27	ZC	1370 g ae/ha		V4/5 CRN-4" WDS	50.04 mL/mx				
	B Roundup PowerMAX 3	575	SL	1260 g ae/ha		V4/5 CRN-4" WDS	31.24 mL/mx				
	B AATREX L	480	SC	1680 g ai/ha		V4/5 CRN-4" WDS	49.89 mL/mx				
	B PRIME OIL (COC)	L		1 % v/v		V4/5 CRN-4" WDS	20.0 mL/mx				
	B AMSOL	L		2.5 % v/v		V4/5 CRN-4" WDS	50.0 mL/mx				
2	A RIMSULFURON	250	WG	17.5 g ai/ha		AT PLANT	0.9978 g/mx	102	205	301	403
	A HARMONY SG	500	SG	17.5 g ai/ha		AT PLANT	0.4989 g/mx				
	B Kyro	368.14	ZC	1210 g ae/ha		V4/5 CRN-4" WDS	46.85 mL/mx				
	B Roundup PowerMAX 3	575	SL	1260 g ae/ha		V4/5 CRN-4" WDS	31.24 mL/mx				
	B AATREX L	480	SC	1680 g ai/ha		V4/5 CRN-4" WDS	49.89 mL/mx				
	B PRIME OIL (COC)	L		1 % v/v		V4/5 CRN-4" WDS	20.0 mL/mx				
	B AMSOL	L		2.5 % v/v		V4/5 CRN-4" WDS	50.0 mL/mx				
3	A Resicore XL	390.27	ZC	1370 g ae/ha		AT PLANT	50.04 mL/mx	103	201	302	405
	A AATREX L	480	SC	1680 g ai/ha		AT PLANT	49.89 mL/mx				
	B Kyro	368.14	ZC	1210 g ae/ha		V4/5 CRN-4" WDS	46.85 mL/mx				
	B AATREX L	480	SC	1120 g ai/ha		V4/5 CRN-4" WDS	33.26 mL/mx				
	B Roundup PowerMAX 3	575	SL	1260 g ae/ha		V4/5 CRN-4" WDS	31.24 mL/mx				
	B PRIME OIL (COC)	L		1 % v/v		V4/5 CRN-4" WDS	20.0 mL/mx				
	B AMSOL	L		2.5 % v/v		V4/5 CRN-4" WDS	50.0 mL/mx				
4	A RIMSULFURON	250	WG	17.5 g ai/ha		AT PLANT	0.9978 g/mx	104	206	304	402
	A HARMONY SG	500	SG	17.5 g ai/ha		AT PLANT	0.4989 g/mx				
	B Kyro	368.14	ZC	1210 g ae/ha		V4/5 CRN-4" WDS	46.85 mL/mx				
	B Steadfast Q	377	WG	39.6 g ai/ha		V4/5 CRN-4" WDS	1.497 g/mx				
	B Roundup PowerMAX 3	575	SL	1260 g ae/ha		V4/5 CRN-4" WDS	31.24 mL/mx				
	B AATREX L	480	SC	1680 g ai/ha		V4/5 CRN-4" WDS	49.89 mL/mx				
	B PRIME OIL (COC)	L		1 % v/v		V4/5 CRN-4" WDS	20.0 mL/mx				
	B AMSOL	L		2.5 % v/v		V4/5 CRN-4" WDS	50.0 mL/mx				
5	A BICEP II MAGNUM	660	SC			AT PLANT		105	203	305	406
	B HALEX GT	525	SC			V4/5 CRN-4" WDS					
	B AATREX L	480	SC	1680 g ai/ha		V4/5 CRN-4" WDS	49.89 mL/mx				
	B PRIME OIL (COC)	L		1 % v/v		V4/5 CRN-4" WDS	20.0 mL/mx				
	B AMSOL	L		2.5 % v/v		V4/5 CRN-4" WDS	50.0 mL/mx				
6	AB UNTREATED						106	202	306	401	

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Material Name	Form Conc	Conc Unit	Form Type	Lot Code
3.742	g	RIMSULFURON	RIMSULFURON (25 %W/W)	250	g ai/kg	WG	
1.871	g	HARMONY SG	HARMONY SG	500	g ai/kg	SG	
125.095	mL	Resicore XL	GF-4556	390.27	g ae/l	ZC	
156.177	mL	Roundup PowerMAX 3	Roundup PowerMAX 3	575	g ae/l	SL	
353.387	mL	AATREX L	AATREX L	480	g ai/l	SC	
125.000	mL	PRIME OIL (COC)	PRIME OIL (COC)			L	
312.500	mL	AMSOL	AMSol			L	
175.691	mL	Kyro	GF-5040	368.14	g ae/l	ZC	
1.872	g	Steadfast Q	Steadfast Q	377	g ai/kg	WG	
4.684	mL	HALEX GT	HALEX GT	525	g ae/l	SC	

\* 'Per area' calculations based on application amount= 15 gal/A, mix size= 2 L (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.  
 \* 'Per volume' calculations use spray volume= 15 gal/A, mix size= 2 L.  
 \* Adjusted for multiple applications in treatment list.

# University of Tennessee

## XtendiMax Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN23USADHTAM3 TD Number: LOCALCREATED Protocol Edition No.: 1.04  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % PMBRACRE % 100 % PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Mills, Anthony

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Entry No.	Entry/Trt. Description	Form. Type	AI Conc.	Dose Unit	Dose	Appl. Timing	Appl. Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED					PREPRE	A			101	208	305	401
2	WARRANT MAULER	CS	359	1259 g a/ha		PREPRE	A	49.99 mL/mx		102	207	302	402
		SL	480	280.6 g a/ha		PREPRE	A	8.333 mL/mx					
3	WARRANT	CS	359	1259 g a/ha		PREPRE	A	49.99 mL/mx		103	202	309	403
4	WARRANT ULTRA HERBICIDE	CS	413	1509 g a/ha		PREPRE	A	52.08 mL/mx		104	204	304	404
5	WARRANT MAULER XTENDIMAX VAPORGRIP VAPORGRIP XTRA AGENT	CS	359	1259 g a/ha		PREPRE	A	49.99 mL/mx		105	206	307	405
		SL	480	280.6 g a/ha		PREPRE	A	8.333 mL/mx					
		LF	350	562.6 g ae/ha		PREPRE	A	22.91 mL/mx					
		SL	394	1.462 l/ha		PREPRE	A	20.84 mL/mx					
6	WARRANT XTENDIMAX VAPORGRIP VAPORGRIP XTRA AGENT	CS	359	1259 g a/ha		PREPRE	A	49.99 mL/mx		106	209	303	406
		LF	350	562.6 g ae/ha		PREPRE	A	22.91 mL/mx					
		SL	394	1.462 l/ha		PREPRE	A	20.84 mL/mx					
7	WARRANT ULTRA HERBICIDE INTACT DRIFT CONTROL & FOLIAR AGENT (DFR) XTENDIMAX VAPORGRIP VAPORGRIP XTRA AGENT	CS	413	1509 g a/ha		PREPRE	A	52.08 mL/mx		107	210	308	407
		XL	43.2	0.5 % v/v		PREPRE	A	10.0 mL/mx					
		LF	350	562.6 g ae/ha		PREPRE	A	22.91 mL/mx					
		SL	394	1.462 l/ha		PREPRE	A	20.84 mL/mx					
8	XTENDIMAX VAPORGRIP VAPORGRIP XTRA AGENT	LF	350	562.6 g ae/ha		PREPRE	A	22.91 mL/mx		108	201	310	408
		SL	394	1.462 l/ha		PREPRE	A	20.84 mL/mx					
9	VERDICT	EC	668	244 g a/ha		PREPRE	A	5.207 mL/mx		109	203	301	409
10	VERDICT XTENDIMAX VAPORGRIP VAPORGRIP XTRA AGENT	EC	668	244 g a/ha		PREPRE	A	5.207 mL/mx		110	205	306	410
		LF	350	562.6 g ae/ha		PREPRE	A	22.91 mL/mx					
		SL	394	1.462 l/ha		PREPRE	A	20.84 mL/mx					

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Entry/Trt. Description	Identification Code	AI Conc.	AI Conc. Unit	Form. Type	Lot Batch Number
249.946	mL	WARRANT	BCORKA_WARRANT	359	GA/L	CS	
20.832	mL	MAULER	BCMOSI_20020401	480	GA/L	SL	
130.204	mL	WARRANT ULTRA HERBICIDE	BCMOSI_16111501	413	GA/L	CS	
143.205	mL	XTENDIMAX VAPORGRIP	BCMOSI_17022302	350	GA/L	LF	
130.249	mL	VAPORGRIP XTRA AGENT	SP102000037640	394	GA/L	SL	
12.500	mL	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	BCSCMA_19022701	43.2	%AW/W	XL	
13.017	mL	VERDICT	BCMOSI_09090704	668	GA/L	EC	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.



# University of Tennessee

## SC600/619 Soybean/Safety and Yield\_External

Trial ID: HN23USAJBGTAM2 TD Number: LOCALCREATED Protocol Edition No.: 1.02  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MDCPPROT % 100 % MDCPPROT  
 Protocol Developer: Buol, John  
 License User: Mills, Anthony

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Entry No.	Entry/Trt. Description	Form. Type	AI Conc.	Dose Unit	Dose a/ha	Appl. Timing	Appl. Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
9	478+MRB (SC600)	SC	600	451.6 g	a/ha	PREPRE	A	10.73 mL/mx	109	211	310	405
	VALOR EZ	SC	480	70.15 g	a/ha	PREPRE	A	2.083 mL/mx				
	WARRANT	CS	359	1259 g	a/ha	MIPOCR	B	49.99 mL/mx				
	ROUNDUP POWERMAX 3	SL	575	1260 g	a/ha	MIPOCR	B	31.24 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	MIPOCR	B	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	MIPOCR	B	50.0 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	LAPOWE	C	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	LAPOWE	C	50.0 mL/mx				
10	MAULER	SL	480	301.6 g	a/ha	PREPRE	A	8.956 mL/mx	110	212	311	410
	WARRANT	CS	359	1259 g	a/ha	MIPOCR	B	49.99 mL/mx				
	ROUNDUP POWERMAX 3	SL	575	1260 g	a/ha	MIPOCR	B	31.24 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	MIPOCR	B	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	MIPOCR	B	50.0 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	LAPOWE	C	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	LAPOWE	C	50.0 mL/mx				
11	MAULER	SL	480	603 g	a/ha	PREPRE	A	17.91 mL/mx	111	207	306	401
	WARRANT	CS	359	1259 g	a/ha	MIPOCR	B	49.99 mL/mx				
	ROUNDUP POWERMAX 3	SL	575	1260 g	a/ha	MIPOCR	B	31.24 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	MIPOCR	B	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	MIPOCR	B	50.0 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	LAPOWE	C	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	LAPOWE	C	50.0 mL/mx				
12	FIERCE MTZ	SC	317	463.3 g	a/ha	PREPRE	A	20.83 mL/mx	112	203	309	412
	WARRANT	CS	359	1259 g	a/ha	MIPOCR	B	49.99 mL/mx				
	ROUNDUP POWERMAX 3	SL	575	1260 g	a/ha	MIPOCR	B	31.24 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	MIPOCR	B	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	MIPOCR	B	50.0 mL/mx				
	LIBERTY 280	SL	280	655 g	a/ha	LAPOWE	C	33.34 mL/mx				
	N-PAK AMS LIQUID	XL	34	2.5 %	v/v	LAPOWE	C	50.0 mL/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Entry/Trt. Description	Identification Code	AI Conc.	AI Conc. Unit	Form. Type	Lot Batch Number
74.207	mL	DFF+FFA+MRB	SP102000037295	619	GA/L	SC	
749.839	mL	WARRANT	BCORKA_WARRANT	359	GA/L	CS	
429.488	mL	ROUNDUP POWERMAX 3	SP102000053823	575	GA/L	SL	
916.983	mL	LIBERTY 280	SP102000019730	280	GA/L	SL	
1,375.000	mL	N-PAK AMS LIQUID	BCOWCL_N-PAK AMS LIQUID	34	%AW/W	XL	
93.870	mL	478+MRB (SC600)	SP102000035484	600	GA/L	SC	
20.827	mL	DUAL MAGNUM	BCROJO_DUAL MAGNUM	912	GA/L	EC	
4.230	mL	ZIDUA SC	BCMOSI_16091501	500	GA/L	SC	
2.604	mL	VALOR EZ	BCADDM_04101401	480	GA/L	SC	
33.579	mL	MAULER	BCMOSI_20020401	480	GA/L	SL	
26.041	mL	FIERCE MTZ	BCMOSI_19021402	317	GA/L	SC	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

## SC600/619 Soybean/Weed Control

Trial ID: HN23USAJBFTAM3    TD Number: LOCALCREATED    Protocol Edition No.: 1.03  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MDCPPROT % 100 % MDCPPROT  
 Protocol Developer: Buol, John  
 License User: Mills, Anthony

Reps: 4                      Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC                      Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Entry No.	Entry/Trt. Description	Form. Type	AI Conc.	Dose Unit	Dose	Appl. Timing	Appl. Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED									101	209	306	404
2	DFE+FFA+MRB	SC	619	859 g a/ha		PREPRE A		19.78 mL/mx		102	214	308	406
3	478+MRB (SC600)	SC	600	451.6 g a/ha		PREPRE A		10.73 mL/mx		103	215	307	411
4	478+MRB (SC600) WARRANT	SC	600	451.6 g a/ha		PREPRE A		10.73 mL/mx		104	205	304	403
		CS	359	1259 g a/ha		PREPRE A		49.99 mL/mx					
5	478+MRB (SC600) DUAL MAGNUM	SC	600	451.6 g a/ha		PREPRE A		10.73 mL/mx		105	201	310	402
		EC	912	1066 g a/ha		PREPRE A		16.66 mL/mx					
6	478+MRB (SC600) ZIDUA SC	SC	600	451.6 g a/ha		PREPRE A		10.73 mL/mx		106	208	313	408
		SC	500	118.7 g a/ha		PREPRE A		3.384 mL/mx					
7	MAULER WARRANT	SL	480	301.6 g a/ha		PREPRE A		8.956 mL/mx		107	211	314	413
		CS	359	1259 g a/ha		PREPRE A		49.99 mL/mx					
8	MAULER WARRANT XTENDIMAX VAPORGRIP INTACT DRIFT CONTROL & FOLIAR AGENT (DFR) VAPORGRIP XTRA AGENT CLASS ACT RIDION	SL	480	301.6 g a/ha		PREPRE A		8.956 mL/mx		108	213	312	414
		CS	359	1259 g a/ha		PREPRE A		49.99 mL/mx					
		LF	350	562.6 g a/ha		PREPRE A		22.91 mL/mx					
		XL	43.2	0.5 % v/v		PREPRE A		10.0 mL/mx					
		SL	394	576 g a/ha		PREPRE A		20.84 mL/mx					
XL	100	1 % v/v		PREPRE A		20.0 mL/mx							
9	WARRANT ULTRA HERBICIDE	CS	413	1509 g a/ha		PREPRE A		52.08 mL/mx		109	206	305	410
10	BOUNDARY 6.5 EC	EC	777	1635 g a/ha		PREPRE A		29.99 mL/mx		110	204	303	407
11	FIERCE MTZ	SC	317	463.3 g a/ha		PREPRE A		20.83 mL/mx		111	202	311	409
12	VALOR EZ	SC	480	70.15 g a/ha		PREPRE A		2.083 mL/mx		112	207	315	405
13	478+MRB (SC600) XTENDIMAX VAPORGRIP INTACT DRIFT CONTROL & FOLIAR AGENT (DFR) VAPORGRIP XTRA AGENT CLASS ACT RIDION	SC	600	451.6 g a/ha		PREPRE A		10.73 mL/mx		113	212	301	415
		LF	350	562.6 g a/ha		PREPRE A		22.91 mL/mx					
		XL	43.2	0.5 % v/v		PREPRE A		10.0 mL/mx					
		SL	394	576 g a/ha		PREPRE A		20.84 mL/mx					
		XL	100	1 % v/v		PREPRE A		20.0 mL/mx					
14	DFE+FFA+MRB XTENDIMAX VAPORGRIP INTACT DRIFT CONTROL & FOLIAR AGENT (DFR) VAPORGRIP XTRA AGENT CLASS ACT RIDION	SC	619	859 g a/ha		PREPRE A		19.78 mL/mx		114	203	309	412
		LF	350	562.6 g a/ha		PREPRE A		22.91 mL/mx					
		XL	43.2	0.5 % v/v		PREPRE A		10.0 mL/mx					
		SL	394	576 g a/ha		PREPRE A		20.84 mL/mx					
		XL	100	1 % v/v		PREPRE A		20.0 mL/mx					
15	478+MRB (SC600) OUTLOOK	SC	600	451.6 g a/ha		PREPRE A		10.73 mL/mx		115	210	302	401
		EC	719	672.5 g a/ha		PREPRE A		13.33 mL/mx					

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Entry/Trt. Description	Identification Code	AI Conc.	AI Conc. Unit	Form. Type	Lot Batch Number
49.452	mL	DFE+FFA+MRB	SP102000037295	619	GAL	SC	
80.465	mL	478+MRB (SC600)	SP102000035484	600	GAL	SC	
187.460	mL	WARRANT	BCORKA_WARRANT	359	GAL	CS	
20.827	mL	DUAL MAGNUM	BCROJO_DUAL MAGNUM	912	GAL	EC	
4.230	mL	ZIDUA SC	BCMOSI_16091501	500	GAL	SC	
22.391	mL	MAULER	BCMOSI_20020401	480	GAL	SL	
85.923	mL	XTENDIMAX VAPORGRIP	BCMOSI_17022302	350	GAL	LF	
37.500	mL	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	BCSCMA_19022701	43.2	%AW/W	XL	
78.145	mL	VAPORGRIP XTRA AGENT	SP102000037640	394	GAL	SL	
75.000	mL	CLASS ACT RIDION	BCMOSI_19022501	100	%AW/W	XL	
65.102	mL	WARRANT ULTRA HERBICIDE	BCMOSI_16111501	413	GAL	CS	
37.493	mL	BOUNDARY 6.5 EC	BCMOSI_20040601	777	GAL	EC	
26.041	mL	FIERCE MTZ	BCMOSI_19021402	317	GAL	SC	
2.604	mL	VALOR EZ	BCADDM_04101401	480	GAL	SC	
16.666	mL	OUTLOOK	AEFDQM_970313353	719	GAL	EC	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.  
 \* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

## Valent Actives in a Roundup Xtend System - Reduced Tillage

Trial ID: VUSA2023MEVER024\_1      Cooperator Trial ID:  
 Protocol ID: VUSA2023FIERCMD64.02      Trial Year: 2023  
 Project ID: Project ID 2: Project ID 3:  
 Sponsor Contact:  
 Investigator: Steckel, Larry

Reps: 4      Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC      Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	ROUNDUP POWER MAX(S)	5.5	SL	32 fl oz/a	A		PREMCR	33.33 mL/mx	101	202	302	401
	XTENDIMAX WITH VAPORGRIP TECH	2.9	SL	22 fl oz/a	A		PREMCR	22.92 mL/mx				
	FIERCE EZ (2065)	3.04	SC	6 fl oz/a	A		PREMCR	6.25 mL/mx				
	INDUCE	100	SF	0.25 % v/v	A		PREMCR	4.999 g/mx				
	IN-PLACE	100	AJ	0.5 % v/v	A		PREMCR	9.999 mL/mx				
	ROUNDUP POWER MAX(S)	5.5	SL	32 fl oz/a	B		POSPOS	33.33 mL/mx				
	XTENDIMAX WITH VAPORGRIP TECH	2.9	SL	22 fl oz/a	B		POSPOS	22.92 mL/mx				
	PERPETUO	2.3	SC	6 fl oz/a	B		POSPOS	6.25 mL/mx				
	IN-PLACE	100	AJ	0.5 % v/v	B		POSPOS	9.999 mL/mx				
INDUCE	100	SF	0.25 % v/v	B		POSPOS	4.999 g/mx					
2	ROUNDUP POWER MAX(S)	5.5	SL	32 fl oz/a	A		PREMCR	33.33 mL/mx	102	204	301	404
	XTENDIMAX WITH VAPORGRIP TECH	2.9	SL	22 fl oz/a	A		PREMCR	22.92 mL/mx				
	FIERCE MTZ SC (2030)	2.64	SC	1 pt/a	A		PREMCR	16.67 mL/mx				
	INDUCE	100	SF	0.25 % v/v	A		PREMCR	4.999 g/mx				
	IN-PLACE	100	AJ	0.5 % v/v	A		PREMCR	9.999 mL/mx				
	ROUNDUP POWER MAX(S)	5.5	SL	32 fl oz/a	B		POSPOS	33.33 mL/mx				
	XTENDIMAX WITH VAPORGRIP TECH	2.9	SL	22 fl oz/a	B		POSPOS	22.92 mL/mx				
	PERPETUO	2.3	SC	6 fl oz/a	B		POSPOS	6.25 mL/mx				
	IN-PLACE	100	AJ	0.5 % v/v	B		POSPOS	9.999 mL/mx				
INDUCE	100	SF	0.25 % v/v	B		POSPOS	4.999 g/mx					
3	ROUNDUP POWER MAX(S)	5.5	SL	32 oz/a	A		PREMCR	33.33 mL/mx	103	203	303	403
	XTENDIMAX WITH VAPORGRIP TECH	2.9	SL	22 oz/a	A		PREMCR	22.92 mL/mx				
	PREFIX	5.29	EC	1 qt/a	A		PREMCR	33.33 mL/mx				
	ROUNDUP POWERMAX 3	5.88	SL	32 oz/a	B		POSPOS	33.33 mL/mx				
	XTENDIMAX	2.9	L	22 oz/a	B		POSPOS	22.92 mL/mx				
	DUAL MAGNUM	7.62	EC	1 pt/a	B		POSPOS	16.67 mL/mx				
4	ROUNDUP POWER MAX(S)	5.5	SL	32 oz/a	A		PREMCR	33.33 mL/mx	104	201	304	402
	XTENDIMAX WITH VAPORGRIP TECH	2.9	SL	22 oz/a	A		PREMCR	22.92 mL/mx				
	ZIDUA PRO	4.09	SC	6 oz/a	A		PREMCR	6.25 mL/mx				
	ROUNDUP POWERMAX 3	5.88	SL	32 oz/a	B		POSPOS	33.33 mL/mx				
	XTENDIMAX	2.9	L	22 oz/a	B		POSPOS	22.92 mL/mx				
	ZIDUA SC	4.17	SC	3.2 oz/a	B		POSPOS	3.333 mL/mx				
5	CHECK							105	205	305	405	

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
250.000	mL	ROUNDUP POWER MAX(S)	5.5	LBAI/GAL	SL	
171.875	mL	XTENDIMAX WITH VAPORGRIP TECH	2.9	LBAI/GAL	SL	
7.812	mL	FIERCE EZ (2065)	3.04	LBAI/GAL	SC	
24.997	g	INDUCE	100	%W/W	SF	
49.995	mL	IN-PLACE	100	%W/W	AJ	
15.625	mL	PERPETUO	2.3	LBAI/GAL	SC	
20.833	mL	FIERCE MTZ SC (2030)	2.64	LBAI/GAL	SC	
41.667	mL	PREFIX	5.29	LBA/GAL	EC	
83.333	mL	ROUNDUP POWERMAX 3	5.88	LB/GAL	SL	
57.292	mL	XTENDIMAX	2.9	LBAE/GAL	L	
20.833	mL	DUAL MAGNUM	7.62	LBA/GAL	EC	
7.812	mL	ZIDUA PRO	4.09	LBA/GAL	SC	
4.167	mL	ZIDUA SC	4.17	LB/GAL	SC	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

## Evaluating Authority Supreme/Edge and Anthem Maxx for Residual Weed Control in Soybeans

Trial ID: USA-23-019  
 Protocol ID: USA-23-019 Location: Trial Year: 2023  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Todd Cogdill Sponsor Contact:  
 Investigator:

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	2	3	4
1	UNTREATED CHECK						Untreated Check			101	208	314	407
2	AUTHORITY SUPR	500 SC		8 fl oz/a	A		PREEMERGENCE	PREMCR	8.333 mL/mx	102	216	315	405
3	AUTHORITY SUPR METRIBUZIN	500 SC 75 WG		7 fl oz/a 5 oz/a	A		PREEMERGENCE PREEMERGENCE	PREMCR PREMCR	7.292 mL/mx 4.993 g/mx	103	207	306	410
4	AUTHORITY SUPR ANTHEM MAXX	500 SC 4.3 SC		6.50 fl oz/a 2.50 fl oz/a	A		PREEMERGENCE V3 Soybeans	PREMCR POSPOS	6.771 mL/mx 2.604 mL/mx	104	202	304	408
5	AUTHORITY EDGE	4.25 SC		8 fl oz/a	A		PREEMERGENCE	PREMCR	8.333 mL/mx	105	217	302	403
6	AUTHORITY EDGE METRIBUZIN	4.25 SC 75 WG		7 fl oz/a 5 oz/a	A		PREEMERGENCE PREEMERGENCE	PREMCR PREMCR	7.292 mL/mx 4.993 g/mx	106	204	316	401
7	AUTHORITY EDGE ANTHEM MAXX	4.25 SC 4.3 SC		7 fl oz/a 3 fl oz/a	A		PREEMERGENCE V3 Soybeans	PREMCR POSPOS	7.292 mL/mx 3.125 mL/mx	107	206	301	404
8	BOUNDARY (6.5EC)	6.5 EC		29 fl oz/a	A		PREEMERGENCE	PREMCR	30.21 mL/mx	108	213	317	415
9	KYBER	2.64 SC		16 fl oz/a	A		PREEMERGENCE	PREMCR	16.67 mL/mx	109	218	312	409
10	TENDOVO	4.18 SC		48 fl oz/a	A		PREEMERGENCE	PREMCR	50.0 mL/mx	110	211	318	411
11	ZIDUA PRO	4.09 SC		6 fl oz/a	A		PREEMERGENCE	PREMCR	6.25 mL/mx	111	210	305	414
12	ANTHEM MAXX	4.3 SC		4 fl oz/a	A		PREEMERGENCE	PREMCR	4.167 mL/mx	112	203	311	417
13	DUAL II MAGNUM (7.64EC)	7.64 EC		20.80 fl oz/a	A		PREEMERGENCE	PREMCR	21.67 mL/mx	113	212	308	412
14	OUTLOOK (6EC)	6 EC		14 fl oz/a	A		PREEMERGENCE	PREMCR	14.58 mL/mx	114	205	309	416
15	WARRANT	3 MS		48 oz/a	A		PREEMERGENCE	PREMCR	50.0 mL/mx	115	201	303	413
16	AUTHORITYFIRST	70 WG		6.40 oz/a	A		PREEMERGENCE	PREMCR	6.391 g/mx	116	209	307	402
17	AUTHORITY EDGE	4.25 SC		7 fl oz/a	A		PREEMERGENCE	PREMCR	7.292 mL/mx	117	214	313	418
18	AUTHORITY EDGE	4.25 SC		9 fl oz/a	A		PREEMERGENCE	PREMCR	9.375 mL/mx	118	215	310	406

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
27.995	mL	AUTHORITY SUPR	500	G/L	SC	
12.482	g	METRIBUZIN	75	%W/W	WG	
12.370	mL	ANTHEM MAXX	4.3	LB/GAL	SC	
49.479	mL	AUTHORITY EDGE	4.25	LB/GAL	SC	
37.760	mL	BOUNDARY (6.5EC)	6.5	LB/GAL	EC	
20.833	mL	KYBER	2.64	LB/GAL	SC	
62.500	mL	TENDOVO	4.18	LB/GAL	SC	
7.812	mL	ZIDUA PRO	4.09	LB/GAL	SC	
27.083	mL	DUAL II MAGNUM (7.64EC)	7.64	LB/GAL	EC	
18.229	mL	OUTLOOK (6EC)	6	LB/GAL	EC	
62.500	mL	WARRANT	3	LB/GAL	MS	
7.988	g	AUTHORITYFIRST	70	%W/W	WG	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for coverage adjustment.



# University of Tennessee

Type PG Year Cty Pl.No. Ver. Rev. Cty Reg No.  
 Trial ID: MKD H 2023 US D63 A 01.0 US UTN 001 GEP:  
 Title: BAS842 IN XTENDFLEX NO-TILL SOYBEANS 3D Crop/LWA: N No  
 GEP Guideline: Crop Destruct Required?: N None / no  
 Short Trial ID: H23D63A-UTN001 Licensee: Dr. Larry Steckel

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt	Product/Entry Name	Form	Conc	FO	Product Rate	Prod Unit	Appl Code	Appl Time	Amt to Measure	Rep			
										1	2	3	4
1	GENGENIA	600.0 SL			12.8 fl oz/a		A	VA	13.33 mL/mx	101	203	308	403
	SENTRIS	703.0 SL			8.0 fl oz/a		A	VA	8.332 mL/mx				
	ZIDUA SC	500.0 SC			3.25 fl oz/a		A	VA	3.385 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		A	VA	31.25 mL/mx				
2	GENGENIA	600.0 SL			12.8 fl oz/a		A	VA	13.33 mL/mx	102	207	302	408
	SENTRIS	703.0 SL			8.0 fl oz/a		A	VA	8.332 mL/mx				
	ZIDUA SC	500.0 SC			3.25 fl oz/a		A	VA	3.385 mL/mx				
	PURSUIT	240.0 SL			4.0 fl oz/a		A	VA	4.166 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		A	VA	31.25 mL/mx				
3	VERDICT	668.0 EC			5.0 fl oz/a		A	VA	5.208 mL/mx	103	202	307	401
	ZIDUA SC	500.0 SC			3.25 fl oz/a		A	VA	3.385 mL/mx				
	PURSUIT	240.0 SL			4.0 fl oz/a		A	VA	4.166 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		A	VA	31.25 mL/mx				
4	GENGENIA	600.0 SL			12.8 fl oz/a		A	VA	13.33 mL/mx	104	208	301	405
	SENTRIS	703.0 SL			8.0 fl oz/a		A	VA	8.332 mL/mx				
	DIMETRIC DF 75%	75.0 WG			4.0 oz wt/a		A	VA	3.994 g/mx				
	ZIDUA SC	500.0 SC			3.25 fl oz/a		A	VA	3.385 mL/mx				
	PURSUIT	240.0 SL			4.0 fl oz/a		A	VA	4.166 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		A	VA	31.25 mL/mx				
5	GENGENIA	600.0 SL			12.8 fl oz/a		B	NA1	13.33 mL/mx	105	206	304	407
	SENTRIS	703.0 SL			8.0 fl oz/a		B	NA1	8.332 mL/mx				
	ZIDUA SC	500.0 SC			3.25 fl oz/a		B	NA1	3.385 mL/mx				
	PURSUIT	240.0 SL			4.0 fl oz/a		B	NA1	4.166 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		B	NA1	31.25 mL/mx				
6	LIBERTY 280 SL	281.8 SL			36.0 fl oz/a		C	NA1	37.5 mL/mx	106	209	305	409
	AMSOL	408.0 SL			48.0 fl oz/a		C	NA1	49.99 mL/mx				
	ZIDUA SC	500.0 SC			3.25 fl oz/a		C	NA1	3.385 mL/mx				
	PURSUIT	240.0 SL			4.0 fl oz/a		C	NA1	4.166 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		C	NA1	31.25 mL/mx				
7	PREFIX	634.8 ME			32.0 fl oz/a		C	NA1	33.33 mL/mx	107	205	306	402
	LIBERTY 280 SL	281.8 SL			36.0 fl oz/a		C	NA1	37.5 mL/mx				
	AMSOL	408.0 SL			48.0 fl oz/a		C	NA1	49.99 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		C	NA1	31.25 mL/mx				
8	ANTHEM MAXX	516.0 SC			3.25 fl oz/a		C	NA1	3.385 mL/mx	108	210	309	410
	LIBERTY 280 SL	281.8 SL			36.0 fl oz/a		C	NA1	37.5 mL/mx				
	AMSOL	408.0 SL			48.0 fl oz/a		C	NA1	49.99 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		C	NA1	31.25 mL/mx				
9	LIBERTY 280 SL	281.8 SL			36.0 fl oz/a		C	NA1	37.5 mL/mx	109	204	303	404
	AMSOL	408.0 SL			48.0 fl oz/a		C	NA1	49.99 mL/mx				
10	GENGENIA	600.0 SL			12.8 fl oz/a		A	VA	13.33 mL/mx	110	201	310	406
	SENTRIS	703.0 SL			8.0 fl oz/a		A	VA	8.332 mL/mx				
	ZIDUA SC	500.0 SC			3.25 fl oz/a		A	VA	3.385 mL/mx				
	PURSUIT	240.0 SL			4.0 fl oz/a		A	VA	4.166 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL			30.0 fl oz/a		A	VA	31.25 mL/mx				
	LIBERTY 280 SL	281.8 SL			36.0 fl oz/a		D	NA2	37.5 mL/mx				
	AMSOL	408.0 SL			48.0 fl oz/a		D	NA2	49.99 mL/mx				
	OUTLOOK	720.0 EC			12.0 fl oz/a		D	NA2	12.5 mL/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Code Com+Number+Recipe Code+P	Product/Entry Name	Form Conc	Conc Unit	FO	Batch/Lot Num / Seedlot
83.324	mL	BAS18322H	GENGENIA	600.0	GA/L	SL	
52.078	mL	BAS92961S	SENTRIS	703.0	GA/L	SL	
29.619	mL	BAS82001H	ZIDUA SC	500.0	GA/L	SC	
351.524	mL	BAS68334H	ROUNDUP POWERMAX3	575.0	GA/L	SL	
31.247	mL	BAS68501H	PURSUIT	240.0	GA/L	SL	
6.510	mL	BAS78102H	VERDICT	668.0	GA/L	EC	

# University of Tennessee

## SUMMIT AGRO CORN VISIBILITY

Trial ID: SUMMITTN23  
 Protocol ID: SUMMITTN Location: JACKSON Trial Year: 2023  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sponsor Contact:  
 Investigator:

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED								101	204	305	404
2	RESTRAINT	6.498 EC		36 oz/a	A	PRE	PRE	37.5 mL/mx	102	201	303	401
	ATRAZINE 4L	4 EC		1 qt/a	A	PRE	PRE	33.33 mL/mx				
	SHIELDDEX	3.33 OD		1.35 oz/a	B	POST	3-5" WEEDS	1.406 mL/mx				
	ATRAZINE 4L	4 EC		1 qt/a	B	POST	3-5" WEEDS	33.33 mL/mx				
	AMS	SG		8 lb/100 gal	B	POST	3-5" WEEDS	19.17 g/mx				
3	RESTRAINT	6.498 EC		36 oz/a	A	PRE	PRE	37.5 mL/mx	103	202	301	403
	ATRAZINE 4L	4 EC		1 qt/a	A	PRE	PRE	33.33 mL/mx				
	SHIELDDEX	3.33 OD		1.35 oz/a	B	POST	3-5" WEEDS	1.406 mL/mx				
	ATRAZINE 4L	4 EC		1 qt/a	B	POST	3-5" WEEDS	33.33 mL/mx				
	ROUNDUP POWERMAX 3	5.88 SL		20 oz/a	B	POST	3-5" WEEDS	20.83 mL/mx				
	AMS	SG		8 lb/100 gal	B	POST	3-5" WEEDS	19.17 g/mx				
4	ACURON	3.44 ZC		1 qt/a	A	PRE	PRE	33.33 mL/mx	104	206	304	406
	HALEX GT	4.39 SC		3.65 pt/a	B	POST	3-5" WEEDS	60.83 mL/mx				
	ATRAZINE 4L	4 EC		1 qt/a	B	POST	3-5" WEEDS	33.33 mL/mx				
	NIS	100 SL		25 % v/v	B	POST	3-5" WEEDS	499.9 mL/mx				
	AMS	SG		8 lb/100 gal	B	POST	3-5" WEEDS	19.17 g/mx				
5	VERDICT	5.57 EC		7 oz/a	A	PRE	PRE	7.292 mL/mx	105	203	302	405
	ARMEZON	2.8 SC		0.75 oz/a	B	POST	3-5" WEEDS	0.7812 mL/mx				
	ATRAZINE 4L	4 EC		1 qt/a	B	POST	3-5" WEEDS	33.33 mL/mx				
	MSO	100 SL		1 % v/v	B	POST	3-5" WEEDS	20.0 mL/mx				
	AMS	SG		8 lb/100 gal	B	POST	3-5" WEEDS	19.17 g/mx				
6	WARRANT	3 CS		48 oz/a	A	PRE	PRE	50.0 mL/mx	106	205	306	402
	CAPRENO	3.45 SC		3 oz/a	B	POST	3-5" WEEDS	3.125 mL/mx				
	ATRAZINE 4L	4 EC		1 qt/a	B	POST	3-5" WEEDS	33.33 mL/mx				
	COC	100 SL		1.25 pt/100 gal	B	POST	3-5" WEEDS	3.125 mL/mx				
	AMS	SG		8 lb/100 gal	B	POST	3-5" WEEDS	19.17 g/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
93.750	mL	RESTRAINT	6.498	LBA/GAL	EC	
291.666	mL	ATRAZINE 4L	4	LB/GAL	EC	
3.516	mL	SHIELDDEX	3.33	LBA/GAL	OD	
119.826	g	AMS			SG	
26.042	mL	ROUNDUP POWERMAX 3	5.88	LB/GAL	SL	
41.667	mL	ACURON	3.44	LB/GAL	ZC	
76.042	mL	HALEX GT	4.39	LB/GAL	SC	
624.932	mL	NIS	100	%	SL	
9.115	mL	VERDICT	5.57	LBA/GAL	EC	
0.977	mL	ARMEZON	2.8	LBA/GAL	SC	
24.997	mL	MSO	100	%	SL	
62.500	mL	WARRANT	3	LB/GAL	CS	
3.906	mL	CAPRENO	3.45	LB/GAL	SC	
3.906	mL	COC	100	%	SL	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

Type PG Year Cty Pl.No. Ver. Rev. Cty Reg No.  
 Trial ID: MKD H 2023 US C23 A 01.0 US UTN 001 GEP:  
 Title: C23 821 UNIVERSITY CORN HERBICIDE TRIAL 3D Crop/LWA: N No  
 GEP Guideline: Crop Destruct Required?: P Partial  
 Short Trial ID: H23C23A-UTN001 Licensee: Dr. Larry Steckel

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt	Product/Entry Name	Form Conc	Product FO	Prod Rate	Unit	Appl Code	Appl Time	Amt Product to Measure	Rep 1	2	3	4
1	CHECK								101	204	307	411
7	BAS 82100H	195.0 ZC		17.0 fl oz/a		A	VA	17.71 mL/mx	102	207	302	409
2	ACURON	412.8 ZC		48.0 fl oz/a		A	VA	49.99 mL/mx	103	210	305	402
3	DEGREE XTRA	485.0 SL		64.0 fl oz/a		A	VA	66.66 mL/mx	104	209	308	405
10	BAS 82100H	195.0 ZC		14.0 fl oz/a		A	VA	14.58 mL/mx	105	208	311	407
	ARMEZON PRO	642.5 EC		16.0 fl oz/a		C	NA	16.66 mL/mx				
	ATRAZIN 4L	480.0 SC		16.0 fl oz/a		C	NA	16.66 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL		30.0 fl oz/a		C	NA	31.25 mL/mx				
	AMMONIUM SULFATE	21.0 SG		8.5 lb/100 gal		C	NA	20.37 g/mx				
	CROP OIL CONCENTRATE	870.0 SL		1.0 % v/v		C	NA	20.0 mL/mx				
6	BAS 82100H	195.0 ZC		14.0 fl oz/a		A	VA	14.58 mL/mx	106	202	303	401
	ATRAZIN 4L	480.0 SC		32.0 fl oz/a		A	VA	33.33 mL/mx				
11	BAS 82100H	195.0 ZC		14.0 fl oz/a		A	VA	14.58 mL/mx	107	205	301	403
	STATUS HERBICIDE	56.0 WG		5.0 oz wt/a		C	NA	4.993 g/mx				
	ZIDUA SC	500.0 SC		2.5 fl oz/a		C	NA	2.604 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL		30.0 fl oz/a		C	NA	31.25 mL/mx				
	AMMONIUM SULFATE	21.0 SG		8.5 lb/100 gal		C	NA	20.37 g/mx				
	INDUCE	998.0 TK		0.25 % v/v		C	NA	4.999 mL/mx				
5	BAS 82100H	195.0 ZC		14.0 fl oz/a		A	VA	14.58 mL/mx	108	203	306	404
8	BAS 82100H	195.0 ZC		17.0 fl oz/a		A	VA	17.71 mL/mx	109	211	309	410
	ATRAZIN 4L	480.0 SC		32.0 fl oz/a		A	VA	33.33 mL/mx				
9	BAS 82100H	195.0 ZC		14.0 fl oz/a		B	NA	14.58 mL/mx	110	206	304	408
	ARMEZON	336.0 SC		0.75 fl oz/a		B	NA	0.7812 mL/mx				
	ATRAZIN 4L	480.0 SC		32.0 fl oz/a		B	NA	33.33 mL/mx				
	ROUNDUP POWERMAX3	575.0 SL		30.0 fl oz/a		B	NA	31.25 mL/mx				
	AMMONIUM SULFATE	21.0 SG		8.5 lb/100 gal		B	NA	20.37 g/mx				
	CROP OIL CONCENTRATE	870.0 SL		1.0 % v/v		B	NA	20.0 mL/mx				
4	TRIVOLT		YY	12.0 fl oz/a		A	VA	12.5 mL/mx	111	201	310	406

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Code Com+Number+Recipe Code+P	Product/Entry Name	Form Conc	Conc Unit	FO	Batch/Lot Num / Seedlot
62.493	mL	BAS96270H	ACURON	412.8	GA/L	ZC	
83.324	mL	BAS92573H	DEGREE XTRA	485.0	GA/L	SL	
15.623	mL	BAS90213H	TRIVOLT			YY	
135.402	mL	BAS82100H	BAS 82100H	195.0	GA/L	ZC	
145.817	mL	BAS17502H	ATRAZIN 4L	480.0	GA/L	SC	
0.976	mL	BAS67001H	ARMEZON	336.0	GA/L	SC	
117.175	mL	BAS68334H	ROUNDUP POWERMAX3	575.0	GA/L	SL	
76.389	g	BCH80799S	AMMONIUM SULFATE	21.0	%	SG	
49.995	mL	BAS94450S	CROP OIL CONCENTRATE	870.0	GA/L	SL	
20.831	mL	BAS67703H	ARMEZON PRO	642.5	GA/L	EC	
6.241	g	BAS79900H	STATUS HERBICIDE	56.0	%	WG	
3.255	mL	BAS82001H	ZIDUA SC	500.0	GA/L	SC	
6.249	mL	BAS92260S	INDUCE	998.0	GA/L	TK	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.  
 \* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.

# University of Tennessee

## Showcasing Temper, Temper HL, and Temper More in Corn (Zea mays)

Trial ID: 22007223  
 Protocol ID: 22007223 Location: Trial Year: 2023  
 Project ID: Glufosinate - Temper More Project ID 2: Corn Project ID 3: Showcase  
 Study Director: Zac Carpenter Sponsor Contact:  
 Investigator: Zac Carpenter

Reps: 4 Plots: 5 by 30 feet  
 Appl. Amount: 15 GAL/AC Mix Size: 2 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Appl Timing	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Nontreated Check									101	207	301	407
2	Parallel Plus	5.5 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	102	203	305	404
3	Parallel Plus	5.5 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	103	204	302	401
	Temper	280 L		31 fl oz/a		B	3-4" Weeds	POSPOS	32.29 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				
4	Parallel Plus	5.5 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	104	202	306	402
	Temper HL	350 L		25 fl oz/a		B	3-4" Weeds	POSPOS	26.04 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				
5	Parallel Plus	5.5 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	105	201	304	406
	Temper More	4.8 L		41 fl oz/a		B	3-4" Weeds	POSPOS	42.71 mL/mx				
	Poweral	90 SL		8 fl oz/a		B	3-4" Weeds	POSPOS	8.333 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				
6	Parallel Plus	5.5 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	106	205	303	405
	Temper More	4.8 L		41 fl oz/a		B	3-4" Weeds	POSPOS	42.71 mL/mx				
	Callisto	4 SC		3 fl oz/a		B	3-4" Weeds	POSPOS	3.125 mL/mx				
	Poweral	90 SL		8 fl oz/a		B	3-4" Weeds	POSPOS	8.333 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				
7	Parallel Plus	5.5 L		48 fl oz/a		A	PRE	PREMCR	50.0 mL/mx	107	206	307	403
	Halex GT	4.389 L		64 fl oz/a		B	3-4" Weeds	POSPOS	66.67 mL/mx				
	Non-Ionic Surfactant	100 SL		0.25 % v/v		B	3-4" Weeds	POSPOS	4.999 mL/mx				
	Ammonium Sulfate	100 SG		17 lb/100 gal		B	3-4" Weeds	POSPOS	40.74 g/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
375.000	mL	Parallel Plus	5.5	LBA/GAL	L	
40.365	mL	Temper	280	g/L	L	
254.630	g	Ammonium Sulfate	100	%	SG	
32.552	mL	Temper HL	350	g/L	L	
106.771	mL	Temper More	4.8	LBA/GAL	L	
20.833	mL	Poweral	90	%	SL	
3.906	mL	Callisto	4	LBA/GAL	SC	
83.333	mL	Halex GT	4.389	LBA/GAL	L	
6.249	mL	Non-Ionic Surfactant	100	%	SL	

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 2 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 2 L.