

University of Georgia

LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN

BARE-GROUND

Trial ID: SB-01-20 Study Dir.: ABRAHAM FULMER
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC							-	101	211	312	410
2	TRICOR AIXR NOZZLES	4 L		8.0 oz/a	PRE	A	6.249 mL/mx	-	102	206	309	406
	ROUNDUP P-MAX II REFLEX AIXR NOZZLES	5.5 SL 2 SL		32.0 oz/a 24.0 oz/a	POST POST	C C	25.0 mL/mx 18.75 mL/mx	-				
3	ZIDUA PRO AIXR NOZZLES	4.09 SC		4.5 oz/a	PRE	A	3.515 mL/mx	-	103	204	301	407
	ENGENIA PRO ROUNDUP P-MAX II TTI NOZZLES	4.54 SL 5.5 SL		16.0 oz/a 32.0 oz/a	POST POST	C C	12.5 mL/mx 25.0 mL/mx	-				
4	ZIDUA PRO AIXR NOZZLES	4.09 SC		4.5 oz/a	PRE	A	3.515 mL/mx	-	104	212	305	404
	LIBERTY OUTLOOK AMS AIXR NOZZLES	2.34 SL 6 EC		32.0 oz/a 16.0 oz/a 2.5 % v/v	POST POST POST	C C C	25.0 mL/mx 12.5 mL/mx 37.5 mL/mx	-				
5	ENGENIA PRIME TTI NOZZLE	5.23 SL		16.0 oz/a	PRE	A	12.5 mL/mx	-	105	201	302	405
	LIBERTY OUTLOOK AMS AIXR NOZZLES	2.34 SL 6 EC		32.0 oz/a 16.0 oz/a 2.5 % v/v	POST POST POST	C C C	25.0 mL/mx 12.5 mL/mx 37.5 mL/mx	-				
6	ENGENIA PRO TTI NOZZLES	4.54 SL		16.0 oz/a	PRE	A	12.5 mL/mx	-	106	202	304	402
	LIBERTY OUTLOOK AMS AIXR NOZZLES	2.34 SL 6 EC		32.0 oz/a 16.0 oz/a 2.5 % v/v	POST POST POST	C C C	25.0 mL/mx 12.5 mL/mx 37.5 mL/mx	-				
7	ENGENIA PRIME TTI NOZZLE	5.23 SL		16.0 oz/a	EPOST	B	12.5 mL/mx	-	107	210	308	412
	ROUNDUP P-MAX II AIXR NOZZLES	5.5 SL		32.0 oz/a	POST	C	25.0 mL/mx	-				
8	ENGENIA PRO TTI NOZZLES	4.54 SL		16.0 oz/a	EPOST	B	12.5 mL/mx	-	108	205	311	408
	LIBERTY OUTLOOK AMS AIXR NOZZLES	2.34 SL 6 EC		32.0 oz/a 16.0 oz/a 2.5 % v/v	LPOST LPOST LPOST	D D D	25.0 mL/mx 12.5 mL/mx 37.5 mL/mx	-				
9	XTENDIMAX WITH VG WARRANT TTI NOZZLES	2.9 SL 3 ME		44.0 oz/a 48.0 oz/a	PRE PRE	A A	34.37 mL/mx 37.5 mL/mx	-	109	208	310	409
	WARRANT ULTRA ROUNDUP P-MAX II AIXR NOZZLES	3.44 ME 5.5 SL		55.0 oz/a 32.0 oz/a	POST POST	C C	42.96 mL/mx 25.0 mL/mx	-				
10	SONIC AIXR NOZZLES	70 DG		5.0 oz/a	PRE	A	3.745 g/mx	-	110	203	307	401
	FEXAPAN EVERPREX ROUNDUP P-MAX II TTI NOZZLES	2.9 SL 7.62 EC 5.5 SL		22.0 oz/a 16.0 oz/a 32.0 oz/a	POST POST POST	C C C	17.19 mL/mx 12.5 mL/mx 25.0 mL/mx	-				

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND			
Trial ID:	SB-01-20	Study Dir.:	ABRAHAM FULMER
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
11	FIERCE XLT	62.4	DG	4.25 oz/a	PRE	A	3.183 g/mx	-	111	207	303	411
	AIXR NOZZLES				PRE	A						
	XTENDIMAX WITH VG	2.9	SL	22.0 oz/a	POST	C	17.19 mL/mx					
	WARRANT	3	ME	48.0 oz/a	POST	C	37.5 mL/mx					
	ROUNDUP P-MAX II	5.5	SL	32.0 oz/a	POST	C	25.0 mL/mx					
	TTI NOZZLES				POST	C		-				
12	TRICOR	4	L	8.0 oz/a	PRE	A	6.249 mL/mx	-	112	209	306	403
	AIXR NOZZLES				PRE	A						
	LIBERTY	2.34	SL	32.0 oz/a	POST	C	25.0 mL/mx					
	OUTLOOK	6	EC	12.8 oz/a	POST	C	9.999 mL/mx					
	AIXR NOZZLES											

Sort Order: Treatment

Trial Comments

ZIDUA PRO = SAFLUFENACIL (0.48 LBS AI/GAL) + IMAZETHAPYR (1.33 LBS AI/GAL) + PYROXASULFONE (2.28 LBS AI/GAL)
 ENGENIA PRO = PYROXASULFONE (0.54 LBS AI/GAL) + DICAMBA (4 LBS AI/GAL)
 ENGENIA PRIME = DICAMBA (4 LBS AI/GAL) + PYROXASULFONE (0.85 LB AI/GAL) + IMAZETHAPYR (0.38 LB AI/GAL)
 SONIC = SULFENTRAZONE (62.1%) + CLORANSULAM (7.9%)
 FIERCE XLT = CHLORIMURON (6.67%) + FLUMIOXAZIN (24.57%) + PYROXASULFONE (31.17%)
 WARRANT ULTRA = FOMESAFEN (0.63 LBS AI/GAL) + ACETOCHLOR (2.82 LBS AI/GAL)

TRIAL WAS CONDUCTED ON BARE-GROUND (NON-CROP) SINCE XTENDFLEX SOYBEAN WAS REGULATED IN 2020.

SUMMARY:

1) GENERALLY, PRE CONTROL OF WILD RADISH WAS POOR (<70%) AT 12 DAT WITH THE FOLLOWING HERBICIDES: ZIDUA PRO, ENGENIA PRIME, ENGENIA PRO, SONIC, AND TRICOR.

2) AT 12 DAT, PALMER AMARANTH CONTROL WITH ALL PRE TREATMENTS WAS EXCELLENT (99%) AND MORNINGGLORY CONTROL WAS > 90% WITH ALL PRE TREATMENTS EXCEPT TRICOR (19% CONTROL OF MG).

3) ON JULY 2 (21 DAYS AFTER LPOST TRT), ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (>94% CONTROL). WILD RADISH WAS GREATER THAN 93% WITH ALL TREATMENTS EXCEPT THE FOLLOWING:

ZIDUA PRO (PRE) FB LIBERTY + OUTLOOK (POST) = 84% CONTROL
 ENGENIA PRO (PRE) FB LIBERTY + OUTLOOK (POST) = 78% CONTROL
 ENGENIA PRO (EPOST) FB LIBERTY + OUTLOOK (POST) = 80% CONTROL
 FIERCE (PRE) FB XTENDIMAX + WARRANT + ROUNDUP (POST) = 85% CONTROL
 TRICOR (PRE) FB LIBERTY + OUTLOOK (POST) = 85% CONTROL

4) ON AUGUST 4 (53 DAYS AFTER LPOST TRT), PALMER AMARANTH CONTROL WAS AT LEAST 90% WITH ALL TREATMENTS EXCEPT THE FOLLOWING:

ENGENIA PRIME (PRE) FB LIBERTY + OUTLOOK (POST) = 71% CONTROL
 ENGENIA PRO (PRE) FB LIBERTY + OUTLOOK (POST) = 80% CONTROL
 ENGENIA PRIME (EPOST) FB ROUNDUP (POST) = 81% CONTROL
 ENGENIA PRO (EPOST) FB LIBERTY + OUTLOOK (LPOST) = 87% CONTROL
 TRICOR (PRE) FB LIBERTY + OUTLOOK (POST) = 61% CONTROL

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN

BARE-GROUND

Trial ID: SB-01-20 Study Dir.: ABRAHAM FULMER
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: ABRAHAM FULMER

Title: _____

Affiliation: _____

Postal Code: _____

Investigator: Eric P. Prostko

Title: _____

Affiliation: _____

Postal Code: _____

Trial Status: E

Initiation Date: _____

Country: _____

City: _____

State/Prov.: _____

Postal Code: _____

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Objective: _____

Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH 2. IPOSP PITTED/IVYLEAF MG
 Weed 3. RAPRA WILD RADISH 4. MOLVE CARPETWEED

Crop 1: _____ BAREGROUND

Variety: _____

Planting Date: _____

Planting Method: _____

Rate: _____

Depth: _____

Perennial Age: _____

Row Spacing: _____

Seed Bed: _____

Soil Temperature: _____

Soil Moisture: _____

Emergence Date: _____

Plot Width, Unit: 6 FT

Plot Length, Unit: 25 FT

Reps: 4

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: RACOB

Trial Initiation Comments: 1 TN/A LIME APPLIED PREPLANT;

Previous: Crops

Pesticides

Year

1. FIELD CORN _____ 2019

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Conc	Unit	Form	Rate	Unit
1.								

SOIL DESCRIPTION

Texture: SAND

% OM: 0.77

% Sand: 92

% Silt: 6

% Clay: 2

pH: _____

CEC: 2.6

Soil Name: TIFTON

Fertility Level: _____

GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-14-20		0.5	IN	SPRINKLER - LATERAL MOVE		
2. May-17-20		0.11	IN	RAINFALL		
3. May-20-20		1.3	IN	RAINFALL		
4. May-22-20		1.2	IN	RAINFALL		
5. May-26-20		0.26	IN	RAINFALL		
6. May-28-20		0.41	IN	RAINFALL		
7. May-29-20		0.19	IN	RAINFALL		
8. Jun-6-20		0.07	IN	RAINFALL		
9. Jun-7-20		0.59	IN	RAINFALL		
10. Jun-9-20		0.15	IN	RAINFALL		
11. Jun-12-20		2.67	IN	RAINFALL		
12. Jun-22-20		0.61	IN	RAINFALL		
13. Jun-24-20		0.65	IN	SPRINKLER - LATERAL MOVE		
14. Jun-29-20		0.65	IN	SPRINKLER - LATERAL MOVE		
15. Jul-5-20		0.5	IN	RAINFALL		
16. Jul-6-20		0.5	IN	RAINFALL		

Overall Moisture Conditions: _____

Closest Weather Station: _____

Distance: _____

Unit: _____

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BARE-GROUND

Trial ID: SB-01-20 Study Dir.: ABRAHAM FULMER
 Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-14-20	May-27-20	Jun-3-20	Jun-11-20		
Time of Day:	7:30 AM	6:50 AM	9:05 AM	6:45 AM		
Application Method:	BROADCAST	BROADCAST	BROADCAST	BROADCAST		
Application Timing:	PRE	EPOST	POST	LPOST		
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE	FOLIAGE		
Air Temp., Unit:	63 F	70 F	73 F	75 F		
% Relative Humidity:	60	97	81	95		
Wind Velocity, Unit:	2 MPH	3 MPH	3 MPH	0 MPH		
Dew Presence (Y/N):	N	Y	N	Y		
Water Hardness:	--	--	--	--		
Soil Temp., Unit:	68 F	74 F	79 F	80 F		
Soil Moisture:	OPTIMUM	WET	OPTIMUM	OPTIMUM		
% Cloud Cover:	5	100	50	100		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:						
Stage Scale:						
Height, Unit:						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage: AMAPA		0.5-1"	1-2"			
Stage Scale:		3-4 LF				
Density, Unit:						
Weed 2 Stage: IPOSP		1-2"	3-4"			
Stage Scale:		2 LEAF				
Density, Unit:						
Weed 3 Stage: RAPRA		0.5-1"	1-3"	1-3"		
Stage Scale:		COT-1 LF				
Density, Unit:						
Weed 4 Stage: MOLVE						
Stage Scale:						
Density, Unit:						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK		
Operating Pressure:	40	38	40	40		
Nozzle Type:	AIXR/TTI	TTI	TTI/AIXR	AIXR		
Nozzle Size:	11002	02	11002	11002		
Nozzle Spacing, Unit:	20	IN 20	IN 20	IN 20		
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit:	60	IN 60	IN 60	IN 60		
Boom Height, Unit:	20	IN 20	IN 20	IN 20		
Ground Speed, Unit:	3.5	MPH 3.5	MPH 3.5	MPH 3.5		
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	WATER	WATER	WATER	WATER		
Spray Volume, Unit:	15	GPA 15	GPA 15	GPA 15		
Spray pH:						
Propellant:	CO2	CO2	CO2	CO2		
Tank Mix (Y/N):						

Trt No	Treatment Application Comment

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Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER						
Location:		PONDER FARM		Investigator:		Eric P. Prostko						
Weed Code							Amapa	Rapra	Iposp	Amapa	Rapra	Molve
Crop Code							-----	-----	-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent
Rating Date							May-26-20	May-26-20	May-26-20	Jun-2-20	Jun-2-20	Jun-2-20
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate Unit	Stg	Code	1	2	3	4	5	
1	NTC						0.0 b	0.0 e	0.0 c	0.0 d	0.0 e	
2	TRICOR	4 L		8.0 oz/a	PRE	A	99.0 a	73.8 b	18.8 b	89.8 b	96.0 ab	
	AIXR NOZZLES				PRE	A						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	REFLEX	2 SL		24.0 oz/a	POST	C						
	AIXR NOZZLES				POST	C						
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	99.0 a	56.3 cd	92.0 a	98.0 a	70.0 c	
	AIXR NOZZLES				PRE	A						
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	TTI NOZZLES				POST	C						
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	99.0 a	47.5 d	94.5 a	99.0 a	35.0 d	
	AIXR NOZZLES				PRE	A						
	LIBERTY	2.34 SL		32.0 oz/a	POST	C						
	OUTLOOK	6 EC		16.0 oz/a	POST	C						
	AMS			2.5 % v/v	POST	C						
	AIXR NOZZLES				POST	C						
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	99.0 a	66.0 bc	98.0 a	99.0 a	98.0 a	
	TTI NOZZLE				PRE	A						
	LIBERTY	2.34 SL		32.0 oz/a	POST	C						
	OUTLOOK	6 EC		16.0 oz/a	POST	C						
	AMS			2.5 % v/v	POST	C						
	AIXR NOZZLES				POST	C						
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	99.0 a	62.3 bcd	93.0 a	98.0 a	33.8 d	
	TTI NOZZLES				PRE	A						
	LIBERTY	2.34 SL		32.0 oz/a	POST	C						
	OUTLOOK	6 EC		16.0 oz/a	POST	C						
	AMS			2.5 % v/v	POST	C						
	AIXR NOZZLES				POST	C						
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	0.0 b	0.0 e	0.0 c	78.5 c	72.5 bc	
	TTI NOZZLE				EPOST	B						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	AIXR NOZZLES				POST	C						
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	0.0 b	0.0 e	0.0 c	86.0 bc	43.8 d	
	TTI NOZZLES				EPOST	B						
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D						
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D						
	AMS			2.5 % v/v	LPOST	D						
	AIXR NOZZLES				LPOST	D						
9	XTENDIMAX WITH VG	2.9 SL		44.0 oz/a	PRE	A	99.0 a	71.0 bc	98.0 a	99.0 a	27.5 d	
	WARRANT	3 ME		48.0 oz/a	PRE	A						
	TTI NOZZLES				PRE	A						
	WARRANT ULTRA	3.44 ME		55.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	AIXR NOZZLES				POST	C						
10	SONIC	70 DG		5.0 oz/a	PRE	A	99.0 a	65.0 bc	99.0 a	98.0 a	97.0 ab	
	AIXR NOZZLES				PRE	A						
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C						
	EVERPREX	7.62 EC		16.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	TTI NOZZLES				POST	C						

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 1,6,11,12 because error mean square = 0.

LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND												
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER						
Location:		PONDER FARM		Investigator:		Eric P. Prostko						
Weed Code							Amapa	Rapra	Iposp	Amapa	Rapra	Molve
Crop Code							-----	-----	-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent
Rating Date							May-26-20	May-26-20	May-26-20	Jun-2-20	Jun-2-20	Jun-2-20
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	1	2	3	4	5	6
11	FIERCE XLT	62.4	DG	4.25 oz/a	PRE	A	99.0 a	95.5 a	99.0 a	99.0 a	98.0 a	99.0 a
	AIXR NOZZLES				PRE	A						
	XTENDIMAX WITH VG	2.9	SL	22.0 oz/a	POST	C						
	WARRANT	3	ME	48.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5	SL	32.0 oz/a	POST	C						
	TTI NOZZLES				POST	C						
12	TRICOR	4	L	8.0 oz/a	PRE	A	99.0 a	62.5 bcd	18.8 b	86.3 bc	94.5 abc	99.0 a
	AIXR NOZZLES				PRE	A						
	LIBERTY	2.34	SL	32.0 oz/a	POST	C						
	OUTLOOK	6	EC	12.8 oz/a	POST	C						
	AIXR NOZZLES											
LSD P=.10							.	16.13	18.02	7.99	24.68	.
Standard Deviation							0.00	13.48	15.06	6.68	20.63	0.00
CV							0.0	26.96	25.41	7.78	32.31	0.0
Grand Mean							74.25	49.98	59.25	85.88	63.83	90.75
Bartlett's X2							0.00	9.661	33.41	23.326	52.47	0.00
P(Bartlett's X2)							.	0.29	0.001*	0.001*	0.001*	.

Means followed by same letter or symbol do not significantly differ (P= .10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 1,6,11,12 because error mean square = 0.

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND												
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER						
Location:		PONDER FARM		Investigator:		Eric P. Prostko						
Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Iposp ----- Control Percent Jun-2-20	Amapa ----- Control Percent Jun-10-20	Rapra ----- Control Percent Jun-10-20	Iposp ----- Control Percent Jun-10-20	Molve ----- Control Percent Jun-10-20	Amapa ----- Control Percent Jun-19-20
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
1	NTC						0.0 d	0.0 c	0.0 c	0.0 d	0.0 b	0.0 b
2	TRICOR	4 L		8.0 oz/a	PRE	A	25.0 c	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	AIXR NOZZLES				PRE	A						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	REFLEX	2 SL		24.0 oz/a	POST	C						
	AIXR NOZZLES				POST	C						
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	90.8 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	AIXR NOZZLES				PRE	A						
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	TTI NOZZLES				POST	C						
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	87.0 a	99.0 a	99.0 a	89.8 bc	99.0 a	99.0 a
	AIXR NOZZLES				PRE	A						
	LIBERTY	2.34 SL		32.0 oz/a	POST	C						
	OUTLOOK	6 EC		16.0 oz/a	POST	C						
	AMS			2.5 % v/v	POST	C						
	AIXR NOZZLES				POST	C						
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	99.0 a	99.0 a	98.0 a	92.0 bc	99.0 a	99.0 a
	TTI NOZZLE				PRE	A						
	LIBERTY	2.34 SL		32.0 oz/a	POST	C						
	OUTLOOK	6 EC		16.0 oz/a	POST	C						
	AMS			2.5 % v/v	POST	C						
	AIXR NOZZLES				POST	C						
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	96.8 a	99.0 a	98.0 a	95.5 ab	99.0 a	99.0 a
	TTI NOZZLES				PRE	A						
	LIBERTY	2.34 SL		32.0 oz/a	POST	C						
	OUTLOOK	6 EC		16.0 oz/a	POST	C						
	AMS			2.5 % v/v	POST	C						
	AIXR NOZZLES				POST	C						
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	60.0 b	98.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	TTI NOZZLE				EPOST	B						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	AIXR NOZZLES				POST	C						
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	60.0 b	96.0 b	68.8 b	99.0 a	99.0 a	99.0 a
	TTI NOZZLES				EPOST	B						
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D						
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D						
	AMS			2.5 % v/v	LPOST	D						
	AIXR NOZZLES				LPOST	D						
9	XTENDIMAX WITH VG	2.9 SL		44.0 oz/a	PRE	A	96.8 a	99.0 a	99.0 a	95.5 ab	99.0 a	99.0 a
	WARRANT	3 ME		48.0 oz/a	PRE	A						
	TTI NOZZLES				PRE	A						
	WARRANT ULTRA	3.44 ME		55.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	AIXR NOZZLES				POST	C						
10	SONIC	70 DG		5.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	AIXR NOZZLES				PRE	A						
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C						
	EVERPREX	7.62 EC		16.0 oz/a	POST	C						
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C						
	TTI NOZZLES				POST	C						

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 1,6,11,12 because error mean square = 0.

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND													
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER							
Location:		PONDER FARM		Investigator:		Eric P. Prostko							
Weed Code							Iposp	Amapa	Rapra	Iposp	Molve	Amapa	
Crop Code							-----	-----	-----	-----	-----	-----	
Rating Data Type							Control	Control	Control	Control	Control	Control	
Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date							Jun-2-20	Jun-10-20	Jun-10-20	Jun-10-20	Jun-10-20	Jun-19-20	
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	7	8	9	10	11	12
11	FIERCE XLT	62.4	DG	4.25	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	AIXR NOZZLES					PRE	A						
	XTENDIMAX WITH VG	2.9	SL	22.0	oz/a	POST	C						
	WARRANT	3	ME	48.0	oz/a	POST	C						
	ROUNDUP P-MAX II	5.5	SL	32.0	oz/a	POST	C						
	TTI NOZZLES					POST	C						
12	TRICOR	4	L	8.0	oz/a	PRE	A	0.0 d	99.0 a	98.0 a	88.5 c	99.0 a	99.0 a
	AIXR NOZZLES					PRE	A						
	LIBERTY	2.34	SL	32.0	oz/a	POST	C						
	OUTLOOK	6	EC	12.8	oz/a	POST	C						
	AIXR NOZZLES												
LSD P=.10							13.46	1.02	4.04	6.02	.	.	
Standard Deviation							11.25	0.85	3.38	5.03	0.00	0.00	
CV							16.6	0.94	3.84	5.72	0.0	0.0	
Grand Mean							67.77	90.42	87.98	87.94	90.75	90.75	
Bartlett's X2							16.779	0.00	14.795	0.994	0.00	0.00	
P(Bartlett's X2)							0.01*	.	0.002*	0.911	.	.	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 1,6,11,12 because error mean square = 0.

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND										
Trial ID: SB-01-20		Study Dir.: ABRAHAM FULMER								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Rapra	Amapa	Rapra	Amapa
Crop Code							-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent
Rating Date							Jun-19-20	Jul-2-20	Jul-2-20	Aug-4-20
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	13	14	15	16
1	NTC						0.0 e	0.0 d	0.0 c	0.0 f
2	TRICOR	4 L		8.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	98.0 a
	AIXR NOZZLES				PRE	A				
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C				
	REFLEX	2 SL		24.0 oz/a	POST	C				
	AIXR NOZZLES				POST	C				
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	99.0 a	99.0 a	94.8 a	92.3 ab
	AIXR NOZZLES				PRE	A				
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C				
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C				
	TTI NOZZLES				POST	C				
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	97.0 ab	98.0 ab	83.8 b	93.5 a
	AIXR NOZZLES				PRE	A				
	LIBERTY	2.34 SL		32.0 oz/a	POST	C				
	OUTLOOK	6 EC		16.0 oz/a	POST	C				
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	99.0 a	98.0 ab	94.8 a	71.3 de
	TTI NOZZLE				PRE	A				
	LIBERTY	2.34 SL		32.0 oz/a	POST	C				
	OUTLOOK	6 EC		16.0 oz/a	POST	C				
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	95.0 bc	99.0 a	77.5 b	80.0 cd
	TTI NOZZLES				PRE	A				
	LIBERTY	2.34 SL		32.0 oz/a	POST	C				
	OUTLOOK	6 EC		16.0 oz/a	POST	C				
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	97.0 ab	97.0 b	96.0 a	81.3 bcd
	TTI NOZZLE				EPOST	B				
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C				
	AIXR NOZZLES				POST	C				
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	87.5 d	99.0 a	80.0 b	87.3 abc
	TTI NOZZLES				EPOST	B				
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D				
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D				
	AMS			2.5 % v/v	LPOST	D				
	AIXR NOZZLES				LPOST	D				
9	XTENDIMAX WITH VG	2.9 SL		44.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	98.0 a
	WARRANT	3 ME		48.0 oz/a	PRE	A				
	TTI NOZZLES				PRE	A				
	WARRANT ULTRA	3.44 ME		55.0 oz/a	POST	C				
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C				
	AIXR NOZZLES				POST	C				
10	SONIC	70 DG		5.0 oz/a	PRE	A	99.0 a	99.0 a	93.3 a	90.0 abc
	AIXR NOZZLES				PRE	A				
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C				
	EVERPREX	7.62 EC		16.0 oz/a	POST	C				
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C				
	TTI NOZZLES				POST	C				

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 1,6,11,12 because error mean square = 0.

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND										
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER				
Location:		PONDER FARM		Investigator:		Eric P. Prostko				
Weed Code							Rapra	Amapa	Rapra	Amapa
Crop Code							-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent
Rating Date							Jun-19-20	Jul-2-20	Jul-2-20	Aug-4-20
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	13	14	15	16
11	FIERCE XLT	62.4	DG	4.25 oz/a	PRE	A	97.0 ab	99.0 a	84.8 b	98.0 a
	AIXR NOZZLES				PRE	A				
	XTENDIMAX WITH VG	2.9	SL	22.0 oz/a	POST	C				
	WARRANT	3	ME	48.0 oz/a	POST	C				
	ROUNDUP P-MAX II	5.5	SL	32.0 oz/a	POST	C				
	TTI NOZZLES				POST	C				
12	TRICOR	4	L	8.0 oz/a	PRE	A	93.5 c	94.8 c	84.8 b	61.3 e
	AIXR NOZZLES				PRE	A				
	LIBERTY	2.34	SL	32.0 oz/a	POST	C				
	OUTLOOK	6	EC	12.8 oz/a	POST	C				
	AIXR NOZZLES									
LSD P=.10							3.05	1.83	7.76	11.26
Standard Deviation							2.54	1.53	6.48	9.41
CV							2.88	1.7	7.88	11.88
Grand Mean							88.50	90.06	82.29	79.23
Bartlett's X2							5.613	1.654	14.722	26.096
P(Bartlett's X2)							0.23	0.647	0.065	0.004*

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 1,6,11,12 because error mean square = 0.

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND					
Trial ID:	SB-01-20	Study Dir.:	ABRAHAM FULMER		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent May-26-20 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	88209.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	88209.000000	8019.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent May-26-20 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	56280.979167			
Replicate	3	4656.062500	1552.020833	8.546	0.0002
Treatment	11	45631.729167	4148.339015	22.842	0.0001
Error	33	5993.187500	181.611742		
Randomized Complete Block (RCB) AOV For Iposp ----- Control Percent May-26-20 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	103139.000000			
Replicate	3	1938.000000	646.000000	2.849	0.0524
Treatment	11	93718.500000	8519.863636	37.575	0.0001
Error	33	7482.500000	226.742424		
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Jun-2-20 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36201.250000			
Replicate	3	431.583333	143.861111	3.223	0.0350
Treatment	11	34296.750000	3117.886364	69.855	0.0001
Error	33	1472.916667	44.633838		
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Jun-2-20 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	69000.666667			
Replicate	3	2731.500000	910.500000	2.140	0.1139
Treatment	11	52230.166667	4748.196970	11.161	0.0001
Error	33	14039.000000	425.424242		
Randomized Complete Block (RCB) AOV For Molve ----- Control Percent Jun-2-20 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Iposp ----- Control Percent Jun-2-20 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	71088.479167			
Replicate	3	357.395833	119.131944	0.942	0.4317
Treatment	11	66556.229167	6050.566288	47.827	0.0001
Error	33	4174.854167	126.510732		
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Jun-10-20 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35731.666667			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35707.666667	3246.151515	4463.459	0.0001
Error	33	24.000000	0.727273		
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Jun-10-20 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	37450.979167			
Replicate	3	28.562500	9.520833	0.835	0.4842
Treatment	11	37046.229167	3367.839015	295.434	0.0001
Error	33	376.187500	11.399621		
Randomized Complete Block (RCB) AOV For Iposp ----- Control Percent Jun-10-20 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35374.812500			
Replicate	3	132.395833	44.131944	1.743	0.1772
Treatment	11	34407.062500	3127.914773	123.566	0.0001
Error	33	835.354167	25.313763		

LIBERTY AND ENGENA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND					
Trial ID:	SB-01-20	Study Dir.:	ABRAHAM FULMER		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For Molve ----- Control Percent Jun-10-20 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Jun-19-20 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Jun-19-20 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	34904.000000			
Replicate	3	16.333333	5.444444	0.841	0.4813
Treatment	11	34674.000000	3152.181818	486.842	0.0001
Error	33	213.666667	6.474747		
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Jul-2-20 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35546.812500			
Replicate	3	3.395833	1.131944	0.483	0.6964
Treatment	11	35466.062500	3224.187500	1375.468	0.0001
Error	33	77.354167	2.344066		
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Jul-2-20 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	34287.916667			
Replicate	3	936.750000	312.250000	7.431	0.0006
Treatment	11	31964.416667	2905.856061	69.150	0.0001
Error	33	1386.750000	42.022727		
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Aug-4-20 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36128.479167			
Replicate	3	86.895833	28.965278	0.327	0.8059
Treatment	11	33117.729167	3010.702652	33.980	0.0001
Error	33	2923.854167	88.601641		
Weed Code					
Amapa = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.					
Rapra = RADISH, WILD / RAPHANUS RAPHANISTRUM L.					
Molve = CARPETWEED / MOLLUGO VERTICILLATA L.					

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND										
Trial ID: SB-01-20		Study Dir.: ABRAHAM FULMER								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code						Amapa	Rapra	Iposp	Amapa	Rapra
Crop Code						-----	-----	-----	-----	-----
Rating Data Type						Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Rating Date						May-26-20	May-26-20	May-26-20	Jun-2-20	Jun-2-20
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
									1	2
									3	4
									5	
1	NTC						101		0.0	0.0
							211		0.0	0.0
							312		0.0	0.0
							410		0.0	0.0
							Mean =		0.0	0.0
2	TRICOR	4 L		8.0 oz/a	PRE	A	102		99.0	95.0
	AIXR NOZZLES				PRE	A	206		99.0	85.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	309		99.0	65.0
	REFLEX	2 SL		24.0 oz/a	POST	C	406		99.0	50.0
	AIXR NOZZLES				POST	C				
							Mean =		99.0	73.8
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	103		99.0	50.0
	AIXR NOZZLES				PRE	A	204		99.0	85.0
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C	301		99.0	50.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	407		99.0	40.0
	TTI NOZZLES				POST	C				
							Mean =		99.0	56.3
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	104		99.0	50.0
	AIXR NOZZLES				PRE	A	212		99.0	50.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	305		99.0	50.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	404		99.0	40.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	47.5
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	105		99.0	50.0
	TTI NOZZLE				PRE	A	201		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	302		99.0	75.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	405		99.0	40.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	66.0
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	106		99.0	50.0
	TTI NOZZLES				PRE	A	202		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	304		99.0	50.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	402		99.0	50.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	62.3
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	107		0.0	0.0
	TTI NOZZLE				EPOST	B	210		0.0	0.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	308		0.0	0.0
	AIXR NOZZLES				POST	C	412		0.0	0.0
							Mean =		0.0	0.0
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	108		0.0	0.0
	TTI NOZZLES				EPOST	B	205		0.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D	311		0.0	0.0
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D	408		0.0	0.0
	AMS			2.5 % v/v	LPOST	D				
	AIXR NOZZLES				LPOST	D				
							Mean =		0.0	0.0

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND											
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER					
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code							Amapa	Rapra	Iposp	Amapa	Rapra
Crop Code							-----	-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent
Rating Date							May-26-20	May-26-20	May-26-20	Jun-2-20	Jun-2-20
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	1	2	3	4	
9	XTENDIMAX WITH VG	2.9 SL		44.0 oz/a	PRE	A 109	99.0	85.0	99.0	99.0	
	WARRANT	3 ME		48.0 oz/a	PRE	A 208	99.0	99.0	99.0	85.0	
	TTI NOZZLES				PRE	A 310	99.0	50.0	99.0	25.0	
	WARRANT ULTRA	3.44 ME		55.0 oz/a	POST	C 409	99.0	50.0	95.0	99.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C				0.0	
	AIXR NOZZLES				POST	C					
	Mean =						99.0	71.0	98.0	99.0	27.5
10	SONIC	70 DG		5.0 oz/a	PRE	A 110	99.0	75.0	99.0	99.0	
	AIXR NOZZLES				PRE	A 203	99.0	85.0	99.0	95.0	
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C 307	99.0	50.0	99.0	95.0	
	EVERPREX	7.62 EC		16.0 oz/a	POST	C 401	99.0	50.0	99.0	95.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	TTI NOZZLES				POST	C					
	Mean =						99.0	65.0	99.0	98.0	97.0
11	FIERCE XLT	62.4 DG		4.25 oz/a	PRE	A 111	99.0	85.0	99.0	99.0	
	AIXR NOZZLES				PRE	A 207	99.0	99.0	99.0	99.0	
	XTENDIMAX WITH VG	2.9 SL		22.0 oz/a	POST	C 303	99.0	99.0	99.0	99.0	
	WARRANT	3 ME		48.0 oz/a	POST	C 411	99.0	99.0	99.0	99.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	TTI NOZZLES				POST	C					
	Mean =						99.0	95.5	99.0	99.0	98.0
12	TRICOR	4 L		8.0 oz/a	PRE	A 112	99.0	50.0	75.0	75.0	
	AIXR NOZZLES				PRE	A 209	99.0	85.0	0.0	85.0	
	LIBERTY	2.34 SL		32.0 oz/a	POST	C 306	99.0	75.0	0.0	90.0	
	OUTLOOK	6 EC		12.8 oz/a	POST	C 403	99.0	40.0	0.0	95.0	
	AIXR NOZZLES										
	Mean =						99.0	62.5	18.8	86.3	94.5

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND										
Trial ID: SB-01-20		Study Dir.: ABRAHAM FULMER								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code						Molve	Iposp	Amapa	Rapra	Iposp
Crop Code						-----	-----	-----	-----	-----
Rating Data Type						Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Rating Date						Jun-2-20	Jun-2-20	Jun-10-20	Jun-10-20	Jun-10-20
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	6	7
									8	9
									10	
1	NTC						101		0.0	0.0
							211		0.0	0.0
							312		0.0	0.0
							410		0.0	0.0
							Mean =		0.0	0.0
2	TRICOR	4 L		8.0 oz/a	PRE	A	102		99.0	50.0
	AIXR NOZZLES				PRE	A	206		99.0	0.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	309		99.0	50.0
	REFLEX	2 SL		24.0 oz/a	POST	C	406		99.0	0.0
	AIXR NOZZLES				POST	C				
							Mean =		99.0	25.0
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	103		99.0	99.0
	AIXR NOZZLES				PRE	A	204		99.0	99.0
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C	301		99.0	70.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	407		99.0	95.0
	TTI NOZZLES				POST	C				
							Mean =		99.0	90.8
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	104		99.0	99.0
	AIXR NOZZLES				PRE	A	212		99.0	60.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	305		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	404		99.0	90.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	87.0
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	105		99.0	99.0
	TTI NOZZLE				PRE	A	201		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	302		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	405		99.0	99.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	99.0
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	106		99.0	99.0
	TTI NOZZLES				PRE	A	202		99.0	90.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	304		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	402		99.0	99.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	96.8
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	107		99.0	50.0
	TTI NOZZLE				EPOST	B	210		99.0	65.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	308		99.0	60.0
	AIXR NOZZLES				POST	C	412		99.0	65.0
							Mean =		99.0	60.0
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	108		99.0	50.0
	TTI NOZZLES				EPOST	B	205		99.0	60.0
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D	311		99.0	65.0
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D	408		99.0	65.0
	AMS			2.5 % v/v	LPOST	D				
	AIXR NOZZLES				LPOST	D				
							Mean =		99.0	60.0

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND											
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER					
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code							Molve	Iposp	Amapa	Rapra	Iposp
Crop Code							-----	-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent
Rating Date							Jun-2-20	Jun-2-20	Jun-10-20	Jun-10-20	Jun-10-20
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	6	7	8	9	
9	XTENDIMAX WITH VG	2.9 SL		44.0 oz/a	PRE	A 109	99.0	99.0	99.0	99.0	
	WARRANT	3 ME		48.0 oz/a	PRE	A 208	99.0	90.0	99.0	85.0	
	TTI NOZZLES				PRE	A 310	99.0	99.0	99.0	99.0	
	WARRANT ULTRA	3.44 ME		55.0 oz/a	POST	C 409	99.0	99.0	99.0	99.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	AIXR NOZZLES				POST	C					
	Mean =						99.0	96.8	99.0	99.0	95.5
10	SONIC	70 DG		5.0 oz/a	PRE	A 110	99.0	99.0	99.0	99.0	99.0
	AIXR NOZZLES				PRE	A 203	99.0	99.0	99.0	99.0	99.0
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C 307	99.0	99.0	99.0	99.0	99.0
	EVERPREX	7.62 EC		16.0 oz/a	POST	C 401	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	TTI NOZZLES				POST	C					
	Mean =						99.0	99.0	99.0	99.0	99.0
11	FIERCE XLT	62.4 DG		4.25 oz/a	PRE	A 111	99.0	99.0	99.0	99.0	99.0
	AIXR NOZZLES				PRE	A 207	99.0	99.0	99.0	99.0	99.0
	XTENDIMAX WITH VG	2.9 SL		22.0 oz/a	POST	C 303	99.0	99.0	99.0	99.0	99.0
	WARRANT	3 ME		48.0 oz/a	POST	C 411	99.0	99.0	99.0	99.0	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	TTI NOZZLES				POST	C					
	Mean =						99.0	99.0	99.0	99.0	99.0
12	TRICOR	4 L		8.0 oz/a	PRE	A 112	99.0	0.0	99.0	95.0	95.0
	AIXR NOZZLES				PRE	A 209	99.0	0.0	99.0	99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C 306	99.0	0.0	99.0	99.0	75.0
	OUTLOOK	6 EC		12.8 oz/a	POST	C 403	99.0	0.0	99.0	99.0	85.0
	AIXR NOZZLES										
	Mean =						99.0	0.0	99.0	98.0	88.5

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND										
Trial ID: SB-01-20		Study Dir.: ABRAHAM FULMER								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code						Molve	Amapa	Rapra	Amapa	Rapra
Crop Code						-----	----	-----	-----	-----
Rating Data Type						Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Rating Date						Jun-10-20	Jun-19-20	Jun-19-20	Jul-2-20	Jul-2-20
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
									11	12
									13	14
									15	
1	NTC						101		0.0	0.0
							211		0.0	0.0
							312		0.0	0.0
							410		0.0	0.0
							Mean =		0.0	0.0
2	TRICOR	4 L		8.0 oz/a	PRE	A	102		99.0	99.0
	AIXR NOZZLES				PRE	A	206		99.0	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	309		99.0	99.0
	REFLEX	2 SL		24.0 oz/a	POST	C	406		99.0	99.0
	AIXR NOZZLES				POST	C				
							Mean =		99.0	99.0
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	103		99.0	99.0
	AIXR NOZZLES				PRE	A	204		99.0	99.0
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C	301		99.0	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	407		99.0	99.0
	TTI NOZZLES				POST	C				
							Mean =		99.0	99.0
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	104		99.0	99.0
	AIXR NOZZLES				PRE	A	212		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	305		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	404		99.0	99.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	99.0
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	105		99.0	99.0
	TTI NOZZLE				PRE	A	201		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	302		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	405		99.0	99.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	99.0
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	106		99.0	99.0
	TTI NOZZLES				PRE	A	202		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	304		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	POST	C	402		99.0	99.0
	AMS			2.5 % v/v	POST	C				
	AIXR NOZZLES				POST	C				
							Mean =		99.0	99.0
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	107		99.0	99.0
	TTI NOZZLE				EPOST	B	210		99.0	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	308		99.0	99.0
	AIXR NOZZLES				POST	C	412		99.0	99.0
							Mean =		99.0	99.0
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	108		99.0	99.0
	TTI NOZZLES				EPOST	B	205		99.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D	311		99.0	99.0
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D	408		99.0	99.0
	AMS			2.5 % v/v	LPOST	D				
	AIXR NOZZLES				LPOST	D				
							Mean =		99.0	99.0

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND											
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER					
Location:		PONDER FARM		Investigator:		Eric P. Prostko					
Weed Code							Molve	Amapa	Rapra	Amapa	Rapra
Crop Code							-----	-----	-----	-----	-----
Rating Data Type							Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent
Rating Date							Jun-10-20	Jun-19-20	Jun-19-20	Jul-2-20	Jul-2-20
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate Unit	Stg	Code Plot	11	12	13	14	
9	XTENDIMAX WITH VG	2.9 SL		44.0 oz/a	PRE	A 109	99.0	99.0	99.0	99.0	
	WARRANT	3 ME		48.0 oz/a	PRE	A 208	99.0	99.0	99.0	99.0	
	TTI NOZZLES				PRE	A 310	99.0	99.0	99.0	99.0	
	WARRANT ULTRA	3.44 ME		55.0 oz/a	POST	C 409	99.0	99.0	99.0	99.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	AIXR NOZZLES				POST	C					
	Mean =						99.0	99.0	99.0	99.0	99.0
10	SONIC	70 DG		5.0 oz/a	PRE	A 110	99.0	99.0	99.0	99.0	
	AIXR NOZZLES				PRE	A 203	99.0	99.0	99.0	99.0	
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C 307	99.0	99.0	99.0	95.0	
	EVERPREX	7.62 EC		16.0 oz/a	POST	C 401	99.0	99.0	99.0	80.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	TTI NOZZLES				POST	C					
	Mean =						99.0	99.0	99.0	99.0	93.3
11	FIERCE XLT	62.4 DG		4.25 oz/a	PRE	A 111	99.0	99.0	95.0	99.0	
	AIXR NOZZLES				PRE	A 207	99.0	99.0	99.0	99.0	
	XTENDIMAX WITH VG	2.9 SL		22.0 oz/a	POST	C 303	99.0	99.0	95.0	99.0	
	WARRANT	3 ME		48.0 oz/a	POST	C 411	99.0	99.0	99.0	99.0	
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C					
	TTI NOZZLES				POST	C					
	Mean =						99.0	99.0	97.0	99.0	84.8
12	TRICOR	4 L		8.0 oz/a	PRE	A 112	99.0	99.0	90.0	90.0	
	AIXR NOZZLES				PRE	A 209	99.0	99.0	99.0	99.0	
	LIBERTY	2.34 SL		32.0 oz/a	POST	C 306	99.0	99.0	95.0	95.0	
	OUTLOOK	6 EC		12.8 oz/a	POST	C 403	99.0	99.0	90.0	95.0	
	AIXR NOZZLES										
	Mean =						99.0	99.0	93.5	94.8	84.8

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND							
Trial ID: SB-01-20		Study Dir.: ABRAHAM FULMER					
Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Amapa ----- Control Percent Aug-4-20
Trt	Treatment	Form	Form	Rate	Grow	Appl	
No.	Name	Conc	Type	Rate	Unit	Stg	Code Plot
							16
1	NTC						101 211 312 410 Mean =
							0.0 0.0 0.0 0.0 0.0
2	TRICOR	4 L		8.0 oz/a	PRE	A	102
	AIXR NOZZLES				PRE	A	206
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	309
	REFLEX	2 SL		24.0 oz/a	POST	C	406
	AIXR NOZZLES				POST	C	
							Mean =
							98.0
3	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	103
	AIXR NOZZLES				PRE	A	204
	ENGENIA PRO	4.54 SL		16.0 oz/a	POST	C	301
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	407
	TTI NOZZLES				POST	C	
							Mean =
							92.3
4	ZIDUA PRO	4.09 SC		4.5 oz/a	PRE	A	104
	AIXR NOZZLES				PRE	A	212
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	305
	OUTLOOK	6 EC		16.0 oz/a	POST	C	404
	AMS			2.5 % v/v	POST	C	
	AIXR NOZZLES				POST	C	
							Mean =
							93.5
5	ENGENIA PRIME	5.23 SL		16.0 oz/a	PRE	A	105
	TTI NOZZLE				PRE	A	201
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	302
	OUTLOOK	6 EC		16.0 oz/a	POST	C	405
	AMS			2.5 % v/v	POST	C	
	AIXR NOZZLES				POST	C	
							Mean =
							71.3
6	ENGENIA PRO	4.54 SL		16.0 oz/a	PRE	A	106
	TTI NOZZLES				PRE	A	202
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	304
	OUTLOOK	6 EC		16.0 oz/a	POST	C	402
	AMS			2.5 % v/v	POST	C	
	AIXR NOZZLES				POST	C	
							Mean =
							80.0
7	ENGENIA PRIME	5.23 SL		16.0 oz/a	EPOST	B	107
	TTI NOZZLE				EPOST	B	210
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	308
	AIXR NOZZLES				POST	C	412
							Mean =
							81.3
8	ENGENIA PRO	4.54 SL		16.0 oz/a	EPOST	B	108
	TTI NOZZLES				EPOST	B	205
	LIBERTY	2.34 SL		32.0 oz/a	LPOST	D	311
	OUTLOOK	6 EC		16.0 oz/a	LPOST	D	408
	AMS			2.5 % v/v	LPOST	D	
	AIXR NOZZLES				LPOST	D	
							Mean =
							87.3

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN BARE-GROUND								
Trial ID:		SB-01-20		Study Dir.:		ABRAHAM FULMER		
Location:		PONDER FARM		Investigator:		Eric P. Prostko		
Weed Code							Amapa	
Crop Code							-----	
Rating Data Type							Control	
Rating Unit							Percent	
Rating Date							Aug-4-20	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Plot	16
9	XTENDIMAX WITH VG WARRANT	2.9 SL		44.0 oz/a	PRE	A	109	95.0
	TTI NOZZLES	3 ME		48.0 oz/a	PRE	A	208	99.0
	WARRANT ULTRA	3.44 ME		55.0 oz/a	PRE	A	310	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C	409	99.0
	AIXR NOZZLES				POST	C		
	Mean =							98.0
10	SONIC	70 DG		5.0 oz/a	PRE	A	110	85.0
	AIXR NOZZLES				PRE	A	203	90.0
	FEXAPAN	2.9 SL		22.0 oz/a	POST	C	307	90.0
	EVERPREX	7.62 EC		16.0 oz/a	POST	C	401	95.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C		
	TTI NOZZLES				POST	C		
	Mean =							90.0
11	FIERCE XLT	62.4 DG		4.25 oz/a	PRE	A	111	95.0
	AIXR NOZZLES				PRE	A	207	99.0
	XTENDIMAX WITH VG WARRANT	2.9 SL		22.0 oz/a	POST	C	303	99.0
	WARRANT	3 ME		48.0 oz/a	POST	C	411	99.0
	ROUNDUP P-MAX II	5.5 SL		32.0 oz/a	POST	C		
	TTI NOZZLES				POST	C		
	Mean =							98.0
12	TRICOR	4 L		8.0 oz/a	PRE	A	112	80.0
	AIXR NOZZLES				PRE	A	209	50.0
	LIBERTY	2.34 SL		32.0 oz/a	POST	C	306	65.0
	OUTLOOK	6 EC		12.8 oz/a	POST	C	403	50.0
	AIXR NOZZLES							
	Mean =							61.3

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LIBERTY AND ENGENIA FOR WEED CONTROL IN XTENDFLEX SOYBEAN

BARE-GROUND

Trial ID:	SB-01-20	Study Dir.:	ABRAHAM FULMER
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code

Amapa = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Rapra = RADISH, WILD / RAPHANUS RAPHANISTRUM L.

Molve = CARPETWEED / MOLLUGO VERTICILLATA L.