

# University of Georgia

## FEXAPAN IN CONVENTIONAL-TILL 2-PASS PROGRAMS FOR RR2X SOYBEANS

Trial ID: SB-08-18  
Protocol ID: USA-18-133  
Project ID:

Location: DuPont Trial Year: 2018  
Investigator: Eric P. Prostko  
Study Director: Jeff Krumm  
Sponsor Contact: JOHN RICHBURG

Reps: 3

Plots: 6 by 25 feet  
Mix Size: 1.5 L

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Spray Volume	Amt Product to Measure	Rep 1	Rep 2	Rep 3
1	TRIVENCE	61.3	WG	8.0	oz/a	PRE	A	15 GPA	5.991 g/mx	101	209	301
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	15 GAL/AC	17.19 mL/mx			
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	15 GAL/AC	12.5 mL/mx			
	INTACT	100	SL	0.50	% v/v	POST	C	15 GAL/AC	7.499 mL/mx			
2	SONIC	70	WG	6.00	oz/a	PRE	A	15 GPA	4.493 g/mx	102	208	306
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	15 GAL/AC	17.19 mL/mx			
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	15 GAL/AC	12.5 mL/mx			
	INTACT	100	SL	0.50	% v/v	POST	C	15 GAL/AC	7.499 mL/mx			
3	ENVIVE	51.3	WG	3.5	oz/a	PRE	A	15 GPA	2.621 g/mx	103	205	302
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	15 GAL/AC	17.19 mL/mx			
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	15 GAL/AC	12.5 mL/mx			
	INTACT	100	SL	0.50	% v/v	POST	C	15 GAL/AC	7.499 mL/mx			
4	SURVEIL	48	WG	3.5	oz/a	PRE	A	15 GPA	2.621 g/mx	104	201	304
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	15 GAL/AC	17.19 mL/mx			
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	15 GAL/AC	12.5 mL/mx			
	INTACT	100	SL	0.50	% v/v	POST	C	15 GAL/AC	7.499 mL/mx			
5	TRICOR	4	L	8.0	oz/a	PRE	A	15 GPA	6.25 mL/mx	105	202	303
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	REFLEX	2	SL	24.0	oz/a	POST	C	15 GAL/AC	18.75 mL/mx			
6	VALOR SX	51	WG	2.0	oz/a	PRE	A	15 GPA	1.498 g/mx	106	204	305
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	15 GAL/AC	17.19 mL/mx			
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	15 GAL/AC	12.5 mL/mx			
	INTACT	100	SL	0.50	% v/v	POST	C	15 GAL/AC	7.499 mL/mx			
7	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	EPOST	B	15 GAL/AC	25.0 mL/mx	107	203	310
	FEXAPAN	2.9	SL	22.00	fl oz/a	EPOST	B	15 GAL/AC	17.19 mL/mx			
	EVERPREX	7.62	EC	1.00	pt/a	EPOST	B	15 GAL/AC	12.5 mL/mx			
	INTACT	100	SL	0.50	% v/v	EPOST	B	15 GAL/AC	7.499 mL/mx			
8	VALOR SX	51	WG	2.0	oz/a	PRE	A	15 GPA	1.498 g/mx	108	210	308
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	15 GAL/AC	25.0 mL/mx			
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	15 GAL/AC	17.19 mL/mx			
	ZIDUA	4.17	SC	2.45	fl oz/a	POST	C	15 GAL/AC	1.914 mL/mx			
	INTACT	100	SL	0.50	% v/v	POST	C	15 GAL/AC	7.499 mL/mx			
9	NTC									109	207	309
10	NTC									110	206	307

Sort Order: Treatment

### Trial Comments

ENVIVE = CHLORIMURON (9.2%) + FLUMIOXAZIN (29.2%) + THIFENSULFURON (2.9%)  
TRIVENCE = CHLORIMURON (3.9%) + FLUMIOXAZIN (12.8%) + METRIBUZIN (44.6%)  
SONIC = SULFENTRAZONE (62%) + CHLORANSULAM (7.9%)  
SURVEIL = FLUMIOXAZIN (36%) + CHLORANSULAM (12%)

EVERPLEX = S-METOLACHLOR

INTACT = DRIFT CONTROL + FOLIAR RETENTION AGENT + DEPOSITION AID

AGRASS = NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDING TEXAS PANICUM, CRABGRASS, GOOSEGRASS, CROWFOOTGRASS.

### SUMMARY:

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- 1) PRE APPLICATIONS OF SONIC, SURVEIL, AND VALOR CAUSED SLIGHT SOYBEAN STUNTING EARLY IN THE SEASON (10-13%).
- 2) PALMER AMARANTH CONTROL WITH ALL PRE AND EPOST TREATMENTS WAS EXCELLENT (99%).
- 3) ABUNDIT EDGE + FEXAPAN + EVERPREX OR ROUNDUP P-MAX + REFLEX CAUSED SLIGHT SOYBEAN LEAF INJURY (BURN/NECROSIS = 10-12%).
- 4) AFTER ALL PRE, EPOST, AND POST TREATMENTS WERE APPLIED, PALMER AMARANTH CONTROL WAS EXCELLENT (96+%) BUT ANNUAL GRASS CONTROL ONLY RANGED BETWEEN 74 TO 90%.

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## FEXAPAN IN CONVENTIONAL-TILL 2-PASS PROGRAMS FOR RR2X SOYBEANS

Trial ID: SB-08-18      Location: DuPont    Trial Year: 2018  
 Protocol ID: USA-18-133    Investigator: Eric P. Prostko  
 Project ID:                      Study Director: Jeff Krumm  
    Sponsor Contact: JOHN RICHBURG

### General Trial Information

**Study Director:** Jeff Krumm      **Title:** \_\_\_\_\_  
**Investigator:** Eric P. Prostko    **Title:** \_\_\_\_\_

**Discipline:** H      herbicide  
**Trial Status:** \_                      **Trial Reliability:** \_\_\_\_\_

**Initiation Date:** \_\_\_\_\_      **Planned Completion Date:** \_\_\_\_\_  
**Completion Date:** \_\_\_\_\_

### Trial Location

**City:** \_\_\_\_\_                      **Country:** USA United States  
**State/Prov.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_              **Climate Zone:** \_\_\_\_\_

**Latitude of LL Corner °:** \_\_\_\_\_ -  
**Longitude of LL Corner °:** \_\_\_\_\_ -  
**Altitude of LL Corner, Unit:** \_\_\_\_\_  
**Angle y-axis to North °:** \_\_\_\_\_

**Directions:**

**Conducted Under GLP:** No    **Official Trial ID:** \_\_\_\_\_  
**Conducted Under GEP:** No    **Other Trial ID:** \_\_\_\_\_  
**Study Rules:** \_\_\_\_\_

No.	Guideline	Description
1.		

**Keywords:**

**Objectives:**

Evaluate FeXapan in 2-pass conventional-till programs for weed control and crop tolerance in RR2X soybean.

**Conclusions:**

### Contacts

**Study Director:** Jeff Krumm                      **Title:** \_\_\_\_\_  
**Organization:** \_\_\_\_\_  
**Address:** \_\_\_\_\_                      **Phone No.:** \_\_\_\_\_  
**City+State/Prov.:** \_\_\_\_\_                      **Mobile No.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_                      **E-mail:** \_\_\_\_\_  
**Country:** \_\_\_\_\_

**Investigator:** Eric P. Prostko                      **Title:** \_\_\_\_\_  
**Organization:** \_\_\_\_\_  
**Address:** \_\_\_\_\_                      **Phone No.:** \_\_\_\_\_  
**City+State/Prov.:** \_\_\_\_\_                      **Mobile No.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_                      **E-mail:** \_\_\_\_\_  
**Country:** \_\_\_\_\_

### Cooperator/Landowner

**Cooperator:** \_\_\_\_\_                      **Role:** \_\_\_\_\_  
**Organization:** \_\_\_\_\_                      **Org. Type:** \_\_\_\_\_  
**Address 1:** \_\_\_\_\_                      **Address 2:** \_\_\_\_\_  
**City:** \_\_\_\_\_                      **Phone No.:** \_\_\_\_\_  
**State/Prov.:** \_\_\_\_\_                      **Fax No.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_                      **Mobile No.:** \_\_\_\_\_  
**Country:** \_\_\_\_\_                      **E-mail:** \_\_\_\_\_

### Other Contacts

Name	Role	Other

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Crop 1: GLXMA Variety: AG72X7		Crop Description
Description: _____		Soybean BBCH Scale: BSOY
Seed Size, Unit: _____	Glycine max	Nursery Date: _____
Seed Shape: _____		Planting Date: Jun-5-18
Planting Rate, Unit: 130680 SEED/A		Planting Method: _____
Depth, Unit: 1.5 IN		Planting Equipment: _____
Row Spacing, Unit: 36 IN		Emergence Date: _____
Spacing within Row, Unit: _____		Harvest Date: _____
Rows per Plot: 2		Harvested Width, Unit: _____
Planting Density, Unit: _____		Harvested Length, Unit: _____
Soil Temperature, Unit: _____		Harvest Equipment: _____
Soil Moisture: WET wet		% Standard Moisture: _____
Seed Bed: _____		Moisture Meter: _____
Perennial Age, Unit: _____		Weighing Equipment: _____

Pest 1 Type: W		Pest Description
Code: AMAPA		Amaranthus palmeri
Common Name: Palmer amaranth		
Description: _____		
Artificial Population: _____		Establishment Date: _____
Establishment Rate, Unit: _____		
Concentration, Unit: _____		
Establishment Method/Description: _____		
Pest 2 Type: W		
Code: AGRASS		TX PAN/CRAB/CROW/GOOSE
Common Name: _____		
Description: _____		
Artificial Population: _____		Establishment Date: _____
Establishment Rate, Unit: _____		
Concentration, Unit: _____		
Establishment Method/Description: _____		

Site and Design			
Treated Plot Width: 6 FT	Site Type: FIELD	field	
Treated Plot Length: 25 FT	Experimental Unit: _____		
Treated Plot Area: 150 FT2	Tillage Type: CONTIL	conventional-till	
Replications: 3	Study Design: RACOB	Randomized Complete Block (RCB)	
% Slope: _____	Treatments: 10		
Trial Initiation Comments:			
No.	Previous Crop	Previous Pesticides	Year
1.	PEANUT		2017

Maintenance										
No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix
1.										
Comment:										
Field Prep./Maintenance:										

Soil Description			
Description Name: _____			
% Sand: 9	% OM: 0.67	Texture: S sand	
% Silt: 2	pH: 6.1	Soil Name: FUQUAY	
% Clay: 4	CEC: 2.9	Fert. Level: G good	
Soil Drainage: E excellent			
Analyzed By: _____			
Additional Measured Elements			
Date	Element	Quantity	Unit

Moisture and Weather Conditions	
Overall Moisture Conditions: _____	Distance, Unit: _____
Closest Weather Station: _____	

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No.	Date	Time	Moisture Total	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	% Relative Humidity	Min Wind	Max Wind
1.	Jun-6-18		0.35	IN	SPLAMO	sprinkler - lateral move									
2.	Jun-11-18		0.5	IN	SPLAMO	sprinkler - lateral move									

**Comment:**

Application Description			
	A	B	C
<b>Application Date:</b>	Jun-6-18	Jun-15-18	Jun-27-18
<b>Appl. Start Time:</b>			
<b>Appl. Stop Time:</b>	8:18 AM	7:30 AM	7:54 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PREPRE	EPOST	POST
<b>Application Placement:</b>	BROADC	BROADC	BROADC
<b>Applied By:</b>	EPP	EPP	EPP
<b>Air Temperature, Unit:</b>	71 F	73 F	76 F
<b>% Relative Humidity:</b>	95	100	96
<b>Wind Velocity, Unit:</b>	1 MPH	2 MPH	1 MPH
<b>Wind Direction:</b>	--	--	--
<b>Dew Presence (Y/N):</b>	N no	Y yes	Y yes
<b>Soil Temperature, Unit:</b>	75 F	75 F	81 F
<b>Soil Moisture:</b>	OPTIMUM	OPTIMUM	OPTIMUM
<b>% Cloud Cover:</b>	30	100	95
<b>Next Moisture Occurred On:</b>			
<b>Time to Next Moisture, Unit:</b>			
<b>Moisture 1 Week after Appl.:</b>			

Crop Stage At Each Application			
	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		BBCH	DESC
<b>Stage Majority, Percent:</b>		VC 100	V3-V4 100
<b>Stage Minimum, Percent:</b>			
<b>Stage Maximum, Percent:</b>			
<b>Average Diameter, Unit:</b>			
<b>Height, Unit:</b>		3 IN	8 IN
<b>Height Minimum, Maximum:</b>			
<b>Crop coverage (%):</b>			

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Pest Stage At Each Application			
	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	AMAPA W	AMAPA W	AMAPA W
<b>Stage Majority, Percent:</b>		4-6 LF 100	
<b>Stage Minimum, Percent:</b>			
<b>Stage Maximum, Percent:</b>			
<b>Diameter, Unit:</b>			
<b>Height, Unit:</b>		2 IN	5 IN
<b>Height Minimum, Maximum:</b>			
<b>Density, Unit:</b>			
<b>Coverage, Unit:</b>			
<b>Pest 2 Code, Type, Scale:</b>	AGRASS W	AGRASS W	AGRASS W
<b>Stage Majority, Percent:</b>			
<b>Stage Minimum, Percent:</b>			
<b>Stage Maximum, Percent:</b>			
<b>Diameter, Unit:</b>			
<b>Height, Unit:</b>			
<b>Height Minimum, Maximum:</b>			
<b>Density, Unit:</b>			
<b>Coverage, Unit:</b>			

Application Equipment			
	A	B	C
<b>Appl. Equipment:</b>	BACKPACK	SAME AS A	SAME AS A
<b>Equipment Type:</b>			
<b>Operation Pressure, Unit:</b>	45 PSI		
<b>Nozzle Type:</b>	TTI		
<b>Nozzle Size:</b>	02		
<b>Nozzle Spacing, Unit:</b>	20 IN		
<b>Nozzles/Row:</b>			
<b>Band Width, Unit:</b>			
<b>% Coverage:</b>			
<b>Boom ID:</b>			
<b>Boom Length, Unit:</b>	60 IN		
<b>Boom Height, Unit:</b>	20 IN		
<b>Ground Speed, Unit:</b>	3.5 MPH		
<b>Carrier:</b>	WATER		
<b>Water Hardness (ppm CaCO3):</b>			
<b>Spray Volume, Unit:</b>	15 GPA		
<b>Mix Overage, Unit:</b>			
<b>Mix Size, Unit:</b>			
<b>Spray pH:</b>			
<b>Propellant:</b>	CO2		
<b>Tank Mix (Y/N):</b>			
<b>Equipment Comment:</b>			

Trt No	Treatment Application Comment
1	PROTOCOL TIMINGS
1	Make POST applications to 2-4 inch weeds.
<hr/>	
1	PROTOCOL TREATMENTS
1	IFS Scientist and University Cooperator to determine key treatments for trials. All treatments must be labeled for RR2X soybeans.
1	Focus would be a pre program highlighting a DowDupont Soybean Pre

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1 program fb Abundit Edge + FeXapan with/without EverpreX as possible  
1 solutions.

1 Possible focus or direction:

- 1 1. Showing the benefit of FeXapan in the post application either  
1 included or not included
- 1 2. Showing the benefit of EverpreX in the post application showing the  
1 benefit of a post program with residual

1 Examples of full programs may include:

- 1 1. Sonic fb Abundit Edge + FeXapan + EverpreX
- 1 2. Trivence fb Abundit Edge + FeXapan + EverpreX
- 1 3. Surveil fb Abundit Edge + FeXapan + EverpreX
- 1 4. Enlite fb Abundit Edge + FeXapan + EverpreX
- 1 5. Afforia fb Abundit Edge + FeXapan + EverpreX

1 All required adjuvants must be included in the treatments at the time of  
1 application.

Date	By	Notes
	EPP	TRIAL WAS PLANTED IN LESS THAN FAVORABLE CONDITIONS. FREQUENT RAINS DELAYED PLANTING. ADDITIONALLY, TRIAL WAS PLANTED AFTER A RAIN AND SOIL WAS COMPACTED WHICH AFFECTED STAND OF SOYBEANS. THUS, SOYBEAN INJURY RATINGS ARE LESS THAN IDEAL.

No.	Date	By	Deviations
1.	_____	_____	_____

Reasons:

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Project ID:	Study Director: Jeff Krumm
Sponsor Contact: JOHN RICHBURG	

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMAPA	AGRASS	AMAPA	AGRASS	AGRASS
Pest Name	Palmer amaranth		Palmer amaranth		
Crop Code					
Crop Name	GLYMA				
Rating Date	SOYBEAN				
Rating Type	Jun-19-18	Jun-19-18	Jun-19-18	Jun-27-18	Jun-27-18
Rating Unit	STUNTING	CONTROL	CONTROL	CONTROL	CONTROL
Number of Subsamples	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Days After First/Last Applic.	1	1	1	1	1
	13 4	13 4	13 4	21 12	21 12
Trt Treatment	Form	Form	Rate	Growth	Appl
No. Name	Conc	Type	Unit	Stage	Code
1 TRIVENCE	61.3 WG	8.0 oz/a	PRE	A	6.7 ab
ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	POST	C	99.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	POST	C	97.7 a
EVERPREX	7.62 EC	1.00 pt/a	POST	C	99.0 a
INTACT	100 SL	0.50 % v/v	POST	C	91.7 ab
2 SONIC	70 WG	6.00 oz/a	PRE	A	10.0 a
ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	POST	C	99.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	POST	C	97.7 a
EVERPREX	7.62 EC	1.00 pt/a	POST	C	99.0 a
INTACT	100 SL	0.50 % v/v	POST	C	90.0 ab
3 ENVIVE	51.3 WG	3.5 oz/a	PRE	A	6.7 ab
ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	POST	C	99.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	POST	C	99.0 a
EVERPREX	7.62 EC	1.00 pt/a	POST	C	99.0 a
INTACT	100 SL	0.50 % v/v	POST	C	88.3 b
4 SURVEIL	48 WG	3.5 oz/a	PRE	A	13.3 a
ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	POST	C	99.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	POST	C	99.0 a
EVERPREX	7.62 EC	1.00 pt/a	POST	C	99.0 a
INTACT	100 SL	0.50 % v/v	POST	C	93.0 ab
5 TRICOR	4 L	8.0 oz/a	PRE	A	6.7 ab
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST	C	99.0 a
REFLEX	2 SL	24.0 oz/a	POST	C	96.3 a
6 VALOR SX	51 WG	2.0 oz/a	PRE	A	10.0 a
ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	POST	C	99.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	POST	C	99.0 a
EVERPREX	7.62 EC	1.00 pt/a	POST	C	99.0 a
INTACT	100 SL	0.50 % v/v	POST	C	88.3 b
7 ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	EPOST	B	10.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	EPOST	B	99.0 a
EVERPREX	7.62 EC	1.00 pt/a	EPOST	B	99.0 a
INTACT	100 SL	0.50 % v/v	EPOST	B	99.0 a
8 VALOR SX	51 WG	2.0 oz/a	PRE	A	10.0 a
ABUNDIT EDGE	5.5 SL	32.00 fl oz/a	POST	C	99.0 a
FEXAPAN	2.9 SL	22.00 fl oz/a	POST	C	99.0 a
ZIDUA	4.17 SC	2.45 fl oz/a	POST	C	99.0 a
INTACT	100 SL	0.50 % v/v	POST	C	93.3 ab
9 NTC					0.0 b
10 NTC					0.0 b
Tukey's HSD P=.10	9.60	.	3.07	.	9.02
Standard Deviation	3.65	0.00	1.17	0.00	3.43
CV	49.79	0.0	1.48	0.0	4.69
Grand Mean	7.33	79.20	78.67	79.20	73.20
Levene's F	0.00	0.00	0.00	0.00	0.889
Levene's Prob(F)	0.00*	0.00*	0.00*	0.00*	0.551
Replicate F	1.000	0.000	2.739	0.000	1.079
Replicate Prob(F)	0.3874	1.0000	0.0915	1.0000	0.3610
Treatment F	4.333	0.000	3785.435	0.000	381.908
Treatment Prob(F)	0.0040	1.0000	0.0001	1.0000	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)  
 Could not calculate Tukey's HSD (% mean diff) for columns 2,4,7 because error mean square = 0.



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Pest Type						W Weed	W Weed	W Weed	W Weed			
Pest Code						AMAPA	AGRASS	AMAPA	AGRASS			
Pest Name						Palmer amaranth		Palmer amaranth				
Crop Code												
Crop Name						GLYMA						
Rating Date						SOYBEAN						
Rating Type						Jul-9-18	Jul-9-18	Jul-30-18	Jul-30-18			
Rating Unit						LEAF BURN	CONTROL	CONTROL	CONTROL			
Number of Subsamples						PERCENT	PERCENT	PERCENT	PERCENT			
Days After First/Last Applic.						1	1	1	1			
						33 12	33 12	33 12	54 33			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Growth Unit	Stage	Appl Code	6	7	8	9	10
1	TRIVENCE	61.3	WG	8.0	oz/a	PRE	A	10.0 ab	99.0 a	96.0 a	99.0 a	88.0 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C					
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C					
	EVERPREX	7.62	EC	1.00	pt/a	POST	C					
	INTACT	100	SL	0.50	% v/v	POST	C					
2	SONIC	70	WG	6.00	oz/a	PRE	A	10.0 ab	99.0 a	91.3 a	99.0 a	88.3 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C					
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C					
	EVERPREX	7.62	EC	1.00	pt/a	POST	C					
	INTACT	100	SL	0.50	% v/v	POST	C					
3	ENVIVE	51.3	WG	3.5	oz/a	PRE	A	10.0 ab	99.0 a	88.3 a	99.0 a	73.3 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C					
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C					
	EVERPREX	7.62	EC	1.00	pt/a	POST	C					
	INTACT	100	SL	0.50	% v/v	POST	C					
4	SURVEIL	48	WG	3.5	oz/a	PRE	A	5.0 bc	99.0 a	93.0 a	99.0 a	86.7 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C					
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C					
	EVERPREX	7.62	EC	1.00	pt/a	POST	C					
	INTACT	100	SL	0.50	% v/v	POST	C					
5	TRICOR	4	L	8.0	oz/a	PRE	A	11.7 a	99.0 a	97.7 a	99.0 a	85.0 a
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C					
	REFLEX	2	SL	24.0	oz/a	POST	C					
6	VALOR SX	51	WG	2.0	oz/a	PRE	A	6.7 ab	99.0 a	94.7 a	99.0 a	90.0 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C					
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C					
	EVERPREX	7.62	EC	1.00	pt/a	POST	C					
	INTACT	100	SL	0.50	% v/v	POST	C					
7	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	EPOST	B	0.0 c	99.0 a	96.3 a	96.0 a	90.0 a
	FEXAPAN	2.9	SL	22.00	fl oz/a	EPOST	B					
	EVERPREX	7.62	EC	1.00	pt/a	EPOST	B					
	INTACT	100	SL	0.50	% v/v	EPOST	B					
8	VALOR SX	51	WG	2.0	oz/a	PRE	A	10.0 ab	99.0 a	96.0 a	99.0 a	88.3 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C					
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C					
	ZIDUA	4.17	SC	2.45	fl oz/a	POST	C					
	INTACT	100	SL	0.50	% v/v	POST	C					
9	NTC							0.0 c	0.0 b	0.0 b	0.0 b	0.0 b
10	NTC							0.0 c	0.0 b	0.0 b	0.0 b	0.0 b
Tukey's HSD P=.10								6.25	.	12.99	4.32	24.50
Standard Deviation								2.38	0.00	4.94	1.64	9.32
CV								37.53	0.0	6.56	2.08	13.51
Grand Mean								6.33	79.20	75.33	78.90	68.97
Levene's F								1.204	0.00	0.575		0.472
Levene's Prob(F)								0.346	0.00*	0.801		0.876
Replicate F								2.803	0.000	0.042	1.000	0.559
Replicate Prob(F)								0.0871	1.0000	0.9586	0.3874	0.5816
Treatment F								12.066	0.000	194.712	1922.334	46.429
Treatment Prob(F)								0.0001	1.0000	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)  
 Could not calculate Tukey's HSD (% mean diff) for columns 2,4,7 because error mean square = 0.

# University of Georgia

Pest Type							GLYMA SOYBEAN Jul-30-18 STUNTING PERCENT 1 54 33	
Pest Code								
Pest Name								
Crop Code								
Crop Name								
Rating Date								
Rating Type								
Rating Unit								
Number of Subsamples								
Days After First/Last Applic.								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Growth Unit	Appl Stage	Code	11
1	TRIVENCE	61.3	WG	8.0	oz/a	PRE	A	6.7 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	
	INTACT	100	SL	0.50	% v/v	POST	C	
2	SONIC	70	WG	6.00	oz/a	PRE	A	5.0 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	
	INTACT	100	SL	0.50	% v/v	POST	C	
3	ENVIVE	51.3	WG	3.5	oz/a	PRE	A	8.3 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	
	INTACT	100	SL	0.50	% v/v	POST	C	
4	SURVEIL	48	WG	3.5	oz/a	PRE	A	8.3 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	
	INTACT	100	SL	0.50	% v/v	POST	C	
5	TRICOR	4	L	8.0	oz/a	PRE	A	10.0 a
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	
	REFLEX	2	SL	24.0	oz/a	POST	C	
6	VALOR SX	51	WG	2.0	oz/a	PRE	A	10.0 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	
	EVERPREX	7.62	EC	1.00	pt/a	POST	C	
	INTACT	100	SL	0.50	% v/v	POST	C	
7	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	EPOST	B	10.0 a
	FEXAPAN	2.9	SL	22.00	fl oz/a	EPOST	B	
	EVERPREX	7.62	EC	1.00	pt/a	EPOST	B	
	INTACT	100	SL	0.50	% v/v	EPOST	B	
8	VALOR SX	51	WG	2.0	oz/a	PRE	A	5.0 a
	ABUNDIT EDGE	5.5	SL	32.00	fl oz/a	POST	C	
	FEXAPAN	2.9	SL	22.00	fl oz/a	POST	C	
	ZIDUA	4.17	SC	2.45	fl oz/a	POST	C	
	INTACT	100	SL	0.50	% v/v	POST	C	
9	NTC							0.0 a
10	NTC							0.0 a
Tukey's HSD P=.10							20.11	
Standard Deviation							7.65	
CV							120.79	
Grand Mean							6.33	
Levene's F							0.867	
Levene's Prob(F)							0.568	
Replicate F							0.399	
Replicate Prob(F)							0.6770	
Treatment F							0.753	
Treatment Prob(F)							0.6586	

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)  
 Could not calculate Tukey's HSD (% mean diff) for columns 2,4,7 because error mean square = 0.

# University of Georgia

## FEXAPAN IN CONVENTIONAL-TILL 2-PASS PROGRAMS FOR RR2X SOYBEANS

Trial ID: SB-08-18      Location: DuPont    Trial Year: 2018  
Protocol ID: USA-18-133    Investigator: Eric P. Prostko  
Project ID:                      Study Director: Jeff Krumm  
   Sponsor Contact: JOHN RICHBURG

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, Palmer amaranth = US

AGRASS, , = AGRASS, ,

Rating Unit

PERCENT = percent

# University of Georgia

## FEXAPAN IN CONVENTIONAL-TILL 2-PASS PROGRAMS FOR RR2X SOYBEANS

Trial ID: SB-08-18  
 Protocol ID: USA-18-133  
 Project ID:

Location: DuPont Trial Year: 2018  
 Investigator: Eric P. Prostko  
 Study Director: Jeff Krumm  
 Sponsor Contact: JOHN RICHBURG

Pest Type			W Weed		W Weed		W Weed					
Pest Code			AMAPA		AGRASS		AMAPA		AGRASS			
Pest Name			Palmer amaranth				Palmer amaranth					
Crop Code												
Crop Name												
Rating Date												
Rating Type												
Rating Unit												
Number of Subsamples												
Days After First/Last Applic.												
			GLYMA SOYBEAN Jun-19-18 STUNTING PERCENT 1 13 4		Jun-19-18 CONTROL PERCENT 1 13 4		Jun-19-18 CONTROL PERCENT 1 13 4		Jun-27-18 CONTROL PERCENT 1 21 12		Jun-27-18 CONTROL PERCENT 1 21 12	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Growth Stage	Appl Code	Plot	1	2	3	4	5
1	TRIVENCE	61.3	WG	8.0 oz/a	PRE	A	101	10.0	99.0	99.0	99.0	90.0
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	209	10.0	99.0	95.0	99.0	90.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	301	0.0	99.0	99.0	99.0	95.0
	EVERPREX	7.62	EC	1.00 pt/a	POST	C						
	INTACT	100	SL	0.50 % v/v	POST	C						
							Mean =	6.7	99.0	97.7	99.0	91.7
2	SONIC	70	WG	6.00 oz/a	PRE	A	102	10.0	99.0	99.0	99.0	85.0
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	208	10.0	99.0	95.0	99.0	90.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	306	10.0	99.0	99.0	99.0	95.0
	EVERPREX	7.62	EC	1.00 pt/a	POST	C						
	INTACT	100	SL	0.50 % v/v	POST	C						
							Mean =	10.0	99.0	97.7	99.0	90.0
3	ENVIVE	51.3	WG	3.5 oz/a	PRE	A	103	10.0	99.0	99.0	99.0	90.0
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	205	10.0	99.0	99.0	99.0	90.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	302	0.0	99.0	99.0	99.0	85.0
	EVERPREX	7.62	EC	1.00 pt/a	POST	C						
	INTACT	100	SL	0.50 % v/v	POST	C						
							Mean =	6.7	99.0	99.0	99.0	88.3
4	SURVEIL	48	WG	3.5 oz/a	PRE	A	104	10.0	99.0	99.0	99.0	99.0
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	201	20.0	99.0	99.0	99.0	85.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	304	10.0	99.0	99.0	99.0	95.0
	EVERPREX	7.62	EC	1.00 pt/a	POST	C						
	INTACT	100	SL	0.50 % v/v	POST	C						
							Mean =	13.3	99.0	99.0	99.0	93.0
5	TRICOR	4	L	8.0 oz/a	PRE	A	105	10.0	99.0	99.0	99.0	90.0
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	202	0.0	99.0	95.0	99.0	85.0
	REFLEX	2	SL	24.0 oz/a	POST	C	303	10.0	99.0	95.0	99.0	90.0
							Mean =	6.7	99.0	96.3	99.0	88.3
6	VALOR SX	51	WG	2.0 oz/a	PRE	A	106	10.0	99.0	99.0	99.0	90.0
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	204	10.0	99.0	99.0	99.0	90.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	305	10.0	99.0	99.0	99.0	85.0
	EVERPREX	7.62	EC	1.00 pt/a	POST	C						
	INTACT	100	SL	0.50 % v/v	POST	C						
							Mean =	10.0	99.0	99.0	99.0	88.3
7	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	EPOST	B	107	10.0	99.0	99.0	99.0	99.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	EPOST	B	203	10.0	99.0	99.0	99.0	99.0
	EVERPREX	7.62	EC	1.00 pt/a	EPOST	B	310	10.0	99.0	99.0	99.0	99.0
	INTACT	100	SL	0.50 % v/v	EPOST	B						
							Mean =	10.0	99.0	99.0	99.0	99.0
8	VALOR SX	51	WG	2.0 oz/a	PRE	A	108	10.0	99.0	99.0	99.0	95.0
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	210	10.0	99.0	99.0	99.0	90.0
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	308	10.0	99.0	99.0	99.0	95.0
	ZIDUA	4.17	SC	2.45 fl oz/a	POST	C						
	INTACT	100	SL	0.50 % v/v	POST	C						
							Mean =	10.0	99.0	99.0	99.0	93.3
9	NTC						109	0.0	0.0	0.0	0.0	0.0
							207	0.0	0.0	0.0	0.0	0.0
							309	0.0	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0	0.0
10	NTC						110	0.0	0.0	0.0	0.0	0.0
							206	0.0	0.0	0.0	0.0	0.0
							307	0.0	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0	0.0

# University of Georgia

Pest Type							W Weed		W Weed		W Weed		W Weed	
Pest Code							AMAPA		AGRASS		AMAPA		AGRASS	
Pest Name							Palmer amaranth				Palmer amaranth			
Crop Code							GLYMA							
Crop Name							SOYBEAN							
Rating Date							Jul-9-18		Jul-9-18		Jul-9-18		Jul-30-18	
Rating Type							LEAF BURN		CONTROL		CONTROL		CONTROL	
Rating Unit							PERCENT		PERCENT		PERCENT		PERCENT	
Number of Subsamples							1		1		1		1	
Days After First/Last Applic.							33 12		33 12		33 12		54 33	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Growth Stage	Appl Code	Plot	6	7	8	9	10		
1	TRIVENCE	61.3	WG	8.0 oz/a	PRE	A	101	10.0	99.0	90.0	99.0	80.0		
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	209	10.0	99.0	99.0	99.0	85.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	301	10.0	99.0	99.0	99.0	99.0		
	EVERPREX	7.62	EC	1.00 pt/a	POST	C								
	INTACT	100	SL	0.50 % v/v	POST	C								
							Mean =	10.0	99.0	96.0	99.0	88.0		
2	SONIC	70	WG	6.00 oz/a	PRE	A	102	10.0	99.0	85.0	99.0	80.0		
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	208	10.0	99.0	90.0	99.0	95.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	306	10.0	99.0	99.0	99.0	90.0		
	EVERPREX	7.62	EC	1.00 pt/a	POST	C								
	INTACT	100	SL	0.50 % v/v	POST	C								
							Mean =	10.0	99.0	91.3	99.0	88.3		
3	ENVIVE	51.3	WG	3.5 oz/a	PRE	A	103	10.0	99.0	85.0	99.0	65.0		
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	205	10.0	99.0	95.0	99.0	90.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	302	10.0	99.0	85.0	99.0	65.0		
	EVERPREX	7.62	EC	1.00 pt/a	POST	C								
	INTACT	100	SL	0.50 % v/v	POST	C								
							Mean =	10.0	99.0	88.3	99.0	73.3		
4	SURVEIL	48	WG	3.5 oz/a	PRE	A	104	5.0	99.0	99.0	99.0	95.0		
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	201	10.0	99.0	85.0	99.0	80.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	304	0.0	99.0	95.0	99.0	85.0		
	EVERPREX	7.62	EC	1.00 pt/a	POST	C								
	INTACT	100	SL	0.50 % v/v	POST	C								
							Mean =	5.0	99.0	93.0	99.0	86.7		
5	TRICOR	4	L	8.0 oz/a	PRE	A	105	10.0	99.0	99.0	99.0	95.0		
	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	POST	C	202	15.0	99.0	99.0	99.0	95.0		
	REFLEX	2	SL	24.0 oz/a	POST	C	303	10.0	99.0	95.0	99.0	65.0		
							Mean =	11.7	99.0	97.7	99.0	85.0		
6	VALOR SX	51	WG	2.0 oz/a	PRE	A	106	10.0	99.0	95.0	99.0	90.0		
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	204	10.0	99.0	99.0	99.0	95.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	305	0.0	99.0	90.0	99.0	85.0		
	EVERPREX	7.62	EC	1.00 pt/a	POST	C								
	INTACT	100	SL	0.50 % v/v	POST	C								
							Mean =	6.7	99.0	94.7	99.0	90.0		
7	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	EPOST	B	107	0.0	99.0	99.0	99.0	90.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	EPOST	B	203	0.0	99.0	95.0	90.0	85.0		
	EVERPREX	7.62	EC	1.00 pt/a	EPOST	B	310	0.0	99.0	95.0	99.0	95.0		
	INTACT	100	SL	0.50 % v/v	EPOST	B								
							Mean =	0.0	99.0	96.3	96.0	90.0		
8	VALOR SX	51	WG	2.0 oz/a	PRE	A	108	10.0	99.0	99.0	99.0	80.0		
	ABUNDIT EDGE	5.5	SL	32.00 fl oz/a	POST	C	210	10.0	99.0	90.0	99.0	90.0		
	FEXAPAN	2.9	SL	22.00 fl oz/a	POST	C	308	10.0	99.0	99.0	99.0	95.0		
	ZIDUA	4.17	SC	2.45 fl oz/a	POST	C								
	INTACT	100	SL	0.50 % v/v	POST	C								
							Mean =	10.0	99.0	96.0	99.0	88.3		
9	NTC						109	0.0	0.0	0.0	0.0	0.0		
							207	0.0	0.0	0.0	0.0	0.0		
							309	0.0	0.0	0.0	0.0	0.0		
							Mean =	0.0	0.0	0.0	0.0	0.0		
10	NTC						110	0.0	0.0	0.0	0.0	0.0		
							206	0.0	0.0	0.0	0.0	0.0		
							307	0.0	0.0	0.0	0.0	0.0		
							Mean =	0.0	0.0	0.0	0.0	0.0		



# University of Georgia

## FEXAPAN IN CONVENTIONAL-TILL 2-PASS PROGRAMS FOR RR2X SOYBEANS

Trial ID: SB-08-18      Location: DuPont    Trial Year: 2018  
Protocol ID: USA-18-133    Investigator: Eric P. Prostko  
Project ID:                      Study Director: Jeff Krumm  
   Sponsor Contact: JOHN RICHBURG

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, Palmer amaranth = US

AGRASS, , = AGRASS, ,

Rating Unit

PERCENT = percent