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FeXapan in conventional-till 2 pass programs for RR2X soybeans

Trial ID: 17 FEXSOY
 Protocol ID: 17 FEXSOY
 Project ID: US 133 17 01

Location: F-7 East Trial Year: 2017
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Marsha Martin, DuPont

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.86022 N
Longitude of LL Corner °: 83.67093 W
Altitude of LL Corner, Unit: 1092.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Pioneer 36T36X
Description: Dicamba Tolerant

Planting Rate, Unit: 175000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: CONV
Planting Date: May-17-2017
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: May-29-2017

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 3 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Pest 4 Type: W **Code:** POLPY *Persicaria pensylvanica*
Common Name: annual smartweed

Pest 5 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyard grass

Pest 6 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 7 Type: W

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 8
Replications: 3
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: F-7 East
% OM: 1.8 **Texture:** SIL silt loam
pH: 5.7 **Soil Name:** Crosby
CEC: 16.2 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	May-19-2017	Jun-12-2017
Appl. Start Time:	10:20 AM	10:20 AM
Appl. Stop Time:	10:40 AM	10:30 AM
Application Method:	SPRAY	SPRAY
Application Placement:	BROSOI	BROFOL
Applied By:	LAMB	REEB
Air Temperature, Unit:	77 F	81 F
% Relative Humidity:	67	55
Wind Velocity, Unit:	1.5 MPH	4 MPH
Wind Direction:	SE	ENE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	68 F	72 F
Soil Moisture:	VERWET	DRY
% Cloud Cover:	30	30
Next Moisture Occurred On:	Jun-19-2017	Jun-13-2017
Time to Next Moisture, Unit:	0 DAY	1 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		13 100
Height, Unit:		5.5 IN
Height Minimum, Maximum:		5 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		14 100
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		98 m2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		16 100
Height, Unit:		4 IN
Height Minimum, Maximum:		3 5
Density, Unit:		23 m2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		19 100
Height, Unit:		3 IN
Density, Unit:		4 m2
Pest 4 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		12 100
Height, Unit:		2 IN
Pest 5 Code, Type, Scale:	ECHCG W	ECHCG W
Density, Unit:		15 M2
Pest 6 Code, Type, Scale:	AMARE W	AMARE W
Density, Unit:		1 M2
Pest 7 Code, Type, Scale:	W	W

Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	10' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	46 PSI
Nozzle Type:	AIXR	TTI
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	4
Boom Length, Unit:	6.67 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 liters	2 liters
Propellant:	COMCO2	COMCO2

Date	By	Notes
Aug-1-2017	Reeb	overlayed with Roundup to clean up trial

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 Protocol ID: 17 FEXSOY Investigator: Dr. Mark M. Loux
 Project ID: US 133 17 01 Study Director: Bryan Reeb
 Sponsor Contact: Marsha Martin, DuPont

Pest Type	O Other	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	CHEAL
Pest Name		Giant foxtail Common barnyar> Giant ragweed common lambsqu>			
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	Trivence @ 8 oz				0.0 a	53.3 b	50.0 b	46.7 a	100.0 a
	1 Valor SX	2 oz/a		A					
	1 Classic	1.25 oz/a		A					
	1 Metribuzin	4.76 oz/a		A					
	1 Abundit Edge	32 oz/a		B					
	1 Fexapan	22 oz/a		B					
2	Trivence @ 8 oz				0.0 a	46.7 bc	48.3 b	33.3 a	100.0 a
	2 Valor SX	2 oz/a		A					
	2 Classic	1.25 oz/a		A					
	2 Metribuzin	4.76 oz/a		A					
	2 Abundit Edge	32 oz/a		B					
	2 Fexapan	22 oz/a		B					
	2 Cinch	1 pt/a		B					
3	Envive @ 3.5 oz				0.0 a	46.7 bc	43.3 b	43.3 a	100.0 a
	3 Classic	1.28 oz/a		A					
	3 Valor SX	1.96 oz/a		A					
	3 Thifensulfuron	0.208 oz/a		A					
	3 Abundit Edge	32 oz/a		B					
	3 Fexapan	22 oz/a		B					
4	Envive @ 3.5 oz				0.0 a	50.0 bc	50.0 b	43.3 a	100.0 a
	4 Classic	1.28 oz/a		A					
	4 Valor SX	1.96 oz/a		A					
	4 Thifensulfuron	0.208 oz/a		A					
	4 Abundit Edge	32 oz/a		B					
	4 Fexapan	22 oz/a		B					
	4 Cinch	1 pt/a		B					
5	Canopy	6 oz/a		A	0.0 a	81.7 a	81.7 a	40.0 a	100.0 a
	5 Cinch	1 pt/a		A					
	5 Abundit Edge	32 oz/a		B					
	5 Fexapan	22 oz/a		B					
6	Canopy	6 oz/a		A	0.0 a	91.7 a	91.7 a	40.0 a	100.0 a
	6 Cinch	1 pt/a		A					
	6 Abundit Edge	32 oz/a		B					
	6 Fexapan	22 oz/a		B					
	6 Cinch	1 pt/a		B					
7	Canopy	4 oz/a		A	0.0 a	40.0 c	43.3 b	46.7 a	100.0 a
	7 Abundit Edge	32 oz/a		B					
	7 Fexapan	22 oz/a		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	CHEAL
Pest Name		Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017	Jun-12-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 24	24 24	24 24	24 24	24 24
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
8					0.0 a	0.0 d	0.0 c	0.0 b	0.0 b
LSD P=.05					.	13.26	13.80	22.32	.
Standard Deviation					0.00	7.57	7.88	12.75	0.00
CV					0.0	14.77	15.43	34.77	0.0
Bartlett's X2					0.0	5.096	6.593	1.988	0.0
P(Bartlett's X2)					.	0.404	0.36	0.921	.
Replicate F					0.000	2.018	2.938	2.641	0.000
Replicate Prob(F)					1.0000	0.1698	0.0860	0.1064	1.0000
Treatment F					0.000	40.094	36.755	4.396	0.000
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0089	1.0000

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Pest Type	W Weed	W Weed	O Other	W Weed	W Weed	W Weed				
Pest Code	AMARE	SIDSP		SETFA	ECHCG	AMBTR				
Pest Name	Redroot pigweed	Prickly sida		Giant foxtail	Common barnyar>	Giant ragweed				
Crop Code			GLXMA							
Crop Name			Soybean							
Rating Date	Jun-12-2017	Jun-12-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017				
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	24 24	24 24	39 15	39 15	39 15	39 15				
Days After Emergence	14 DE-1	14 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10	11
1	Trivence @ 8 oz				100.0 a	100.0 a	0.0 a	91.7 b	88.3 bc	90.0 a
1	Valor SX	2 oz/a		A						
1	Classic	1.25 oz/a		A						
1	Metribuzin	4.76 oz/a		A						
1	Abundit Edge	32 oz/a		B						
1	Fexapan	22 oz/a		B						
2	Trivence @ 8 oz				100.0 a	100.0 a	0.0 a	98.3 a	96.0 ab	90.0 a
2	Valor SX	2 oz/a		A						
2	Classic	1.25 oz/a		A						
2	Metribuzin	4.76 oz/a		A						
2	Abundit Edge	32 oz/a		B						
2	Fexapan	22 oz/a		B						
2	Cinch	1 pt/a		B						
3	Envive @ 3.5 oz				100.0 a	100.0 a	0.0 a	93.3 b	88.3 bc	90.0 a
3	Classic	1.28 oz/a		A						
3	Valor SX	1.96 oz/a		A						
3	Thifensulfuron	0.208 oz/a		A						
3	Abundit Edge	32 oz/a		B						
3	Fexapan	22 oz/a		B						
4	Envive @ 3.5 oz				100.0 a	100.0 a	0.0 a	100.0 a	96.0 ab	91.7 a
4	Classic	1.28 oz/a		A						
4	Valor SX	1.96 oz/a		A						
4	Thifensulfuron	0.208 oz/a		A						
4	Abundit Edge	32 oz/a		B						
4	Fexapan	22 oz/a		B						
4	Cinch	1 pt/a		B						
5	Canopy	6 oz/a		A	100.0 a	100.0 a	0.0 a	99.3 a	91.7 ab	93.3 a
5	Cinch	1 pt/a		A						
5	Abundit Edge	32 oz/a		B						
5	Fexapan	22 oz/a		B						
6	Canopy	6 oz/a		A	100.0 a	100.0 a	0.0 a	100.0 a	97.7 a	90.0 a
6	Cinch	1 pt/a		A						
6	Abundit Edge	32 oz/a		B						
6	Fexapan	22 oz/a		B						
6	Cinch	1 pt/a		B						
7	Canopy	4 oz/a		A	100.0 a	100.0 a	0.0 a	92.7 b	83.3 c	90.0 a
7	Abundit Edge	32 oz/a		B						
7	Fexapan	22 oz/a		B						

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Pest Type	W Weed	W Weed	O Other	W Weed	W Weed	W Weed
Pest Code	AMARE	SIDSP		SETFA	ECHCG	AMBTR
Pest Name	Redroot pigweed	Prickly sida		Giant foxtail	Common barnyar>	Giant ragweed
Crop Code			GLXMA			
Crop Name			Soybean			
Rating Date	Jun-12-2017	Jun-12-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	24 24	24 24	39 15	39 15	39 15	39 15
Days After Emergence	14 DE-1	14 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1
Trt No.	6	7	8	9	10	11
Treatment Name	Other Rate	Other Rate	Appl Unit Code			
8	0.0 b	0.0 b	0.0 a	0.0 c	0.0 d	0.0 b
LSD P=.05	.	.	.	4.35	7.96	6.44
Standard Deviation	0.00	0.00	0.00	2.48	4.55	3.68
CV	0.0	0.0	0.0	2.94	5.67	4.64
Bartlett's X2	0.0	0.0	0.0	4.159	8.809	1.61
P(Bartlett's X2)	.	.	.	0.385	0.185	0.657
Replicate F	0.000	0.000	0.000	4.795	1.260	1.615
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0259	0.3138	0.2338
Treatment F	0.000	0.000	0.000	572.394	155.782	228.209
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed				
Pest Code	CHEAL	AMARE	SIDSP	IPHOE		SETFA				
Pest Name	common lambsqu>	Redroot pigweed	Prickly sida	ivy-leaf morni>		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jul-10-2017	Jul-10-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	39 15	39 15	39 15	39 15	52 28	52 28				
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1	42 DE-1	42 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	12	13	14	15	16	17
1	Trivence @ 8 oz				100.0 a	100.0 a	100.0 a	91.7 a	0.0 a	93.3 bc
	1 Valor SX	2 oz/a		A						
	1 Classic	1.25 oz/a		A						
	1 Metribuzin	4.76 oz/a		A						
	1 Abundit Edge	32 oz/a		B						
	1 Fexapan	22 oz/a		B						
2	Trivence @ 8 oz				100.0 a	100.0 a	100.0 a	88.3 a	0.0 a	98.7 a
	2 Valor SX	2 oz/a		A						
	2 Classic	1.25 oz/a		A						
	2 Metribuzin	4.76 oz/a		A						
	2 Abundit Edge	32 oz/a		B						
	2 Fexapan	22 oz/a		B						
	2 Cinch	1 pt/a		B						
3	Envive @ 3.5 oz				100.0 a	100.0 a	100.0 a	90.0 a	0.0 a	93.3 bc
	3 Classic	1.28 oz/a		A						
	3 Valor SX	1.96 oz/a		A						
	3 Thifensulfuron	0.208 oz/a		A						
	3 Abundit Edge	32 oz/a		B						
	3 Fexapan	22 oz/a		B						
4	Envive @ 3.5 oz				100.0 a	100.0 a	100.0 a	96.7 a	0.0 a	97.7 a
	4 Classic	1.28 oz/a		A						
	4 Valor SX	1.96 oz/a		A						
	4 Thifensulfuron	0.208 oz/a		A						
	4 Abundit Edge	32 oz/a		B						
	4 Fexapan	22 oz/a		B						
	4 Cinch	1 pt/a		B						
5	Canopy	6 oz/a		A	100.0 a	100.0 a	100.0 a	98.3 a	0.0 a	96.7 ab
	5 Cinch	1 pt/a		A						
	5 Abundit Edge	32 oz/a		B						
	5 Fexapan	22 oz/a		B						
6	Canopy	6 oz/a		A	100.0 a	100.0 a	100.0 a	86.7 a	0.0 a	98.3 a
	6 Cinch	1 pt/a		A						
	6 Abundit Edge	32 oz/a		B						
	6 Fexapan	22 oz/a		B						
	6 Cinch	1 pt/a		B						
7	Canopy	4 oz/a		A	100.0 a	100.0 a	100.0 a	90.0 a	0.0 a	91.7 c
	7 Abundit Edge	32 oz/a		B						
	7 Fexapan	22 oz/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed				
Pest Code	CHEAL	AMARE	SIDSP	IPHOE		SETFA				
Pest Name	common lambsqu>	Redroot pigweed	Prickly sida	ivy-leaf morni>		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jul-10-2017	Jul-10-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	39 15	39 15	39 15	39 15	52 28	52 28				
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1	42 DE-1	42 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	12	13	14	15	16	17
8					0.0 b	0.0 b	0.0 b	0.0 b	0.0 a	0.0 d
LSD P=.05					.	.	.	14.09	.	3.64
Standard Deviation					0.00	0.00	0.00	8.05	0.00	2.08
CV					0.0	0.0	0.0	10.03	0.0	2.49
Bartlett's X2					0.0	0.0	0.0	4.613	0.0	1.635
P(Bartlett's X2)					.	.	.	0.594	.	0.95
Replicate F					0.000	0.000	0.000	0.982	0.000	4.400
Replicate Prob(F)					1.0000	1.0000	1.0000	0.3991	1.0000	0.0329
Treatment F					0.000	0.000	0.000	49.414	0.000	797.853
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001	1.0000	0.0001

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 Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	SIDSP				
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed Prickly sida								
Crop Code									
Crop Name									
Rating Date	Jul-10-2017	Jul-10-2017	Jul-10-2017	Jul-10-2017	Jul-10-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	52 28	52 28	52 28	52 28	52 28				
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	18	19	20	21	22
1	Trivence @ 8 oz				90.0 abc	86.7 ab	100.0 a	100.0 a	100.0 a
1	Valor SX	2 oz/a		A					
1	Classic	1.25 oz/a		A					
1	Metribuzin	4.76 oz/a		A					
1	Abundit Edge	32 oz/a		B					
1	Fexapan	22 oz/a		B					
2	Trivence @ 8 oz				97.7 a	91.7 a	100.0 a	100.0 a	100.0 a
2	Valor SX	2 oz/a		A					
2	Classic	1.25 oz/a		A					
2	Metribuzin	4.76 oz/a		A					
2	Abundit Edge	32 oz/a		B					
2	Fexapan	22 oz/a		B					
2	Cinch	1 pt/a		B					
3	Envive @ 3.5 oz				87.7 bc	90.0 a	100.0 a	100.0 a	100.0 a
3	Classic	1.28 oz/a		A					
3	Valor SX	1.96 oz/a		A					
3	Thifensulfuron	0.208 oz/a		A					
3	Abundit Edge	32 oz/a		B					
3	Fexapan	22 oz/a		B					
4	Envive @ 3.5 oz				97.7 a	91.7 a	100.0 a	100.0 a	100.0 a
4	Classic	1.28 oz/a		A					
4	Valor SX	1.96 oz/a		A					
4	Thifensulfuron	0.208 oz/a		A					
4	Abundit Edge	32 oz/a		B					
4	Fexapan	22 oz/a		B					
4	Cinch	1 pt/a		B					
5	Canopy	6 oz/a		A	91.7 ab	91.7 a	100.0 a	100.0 a	100.0 a
5	Cinch	1 pt/a		A					
5	Abundit Edge	32 oz/a		B					
5	Fexapan	22 oz/a		B					
6	Canopy	6 oz/a		A	96.7 ab	90.0 a	100.0 a	100.0 a	100.0 a
6	Cinch	1 pt/a		A					
6	Abundit Edge	32 oz/a		B					
6	Fexapan	22 oz/a		B					
6	Cinch	1 pt/a		B					
7	Canopy	4 oz/a		A	81.7 c	80.0 b	100.0 a	100.0 a	100.0 a
7	Abundit Edge	32 oz/a		B					
7	Fexapan	22 oz/a		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	SIDSP
Pest Name	Common barnyar> Giant ragweed common lambsqu>		Redroot pigweed	Prickly sida	
Crop Code					
Crop Name					
Rating Date	Jul-10-2017	Jul-10-2017	Jul-10-2017	Jul-10-2017	Jul-10-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	52 28	52 28	52 28	52 28	52 28
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	
8					
		18	19	20	21
		0.0 d	0.0 c	0.0 b	0.0 b
		0.0 b	0.0 b	0.0 b	0.0 b
LSD P=.05		9.71	8.55	.	.
Standard Deviation		5.55	4.88	0.00	0.00
CV		6.9	6.28	0.0	0.0
Bartlett's X2		8.555	1.283	0.0	0.0
P(Bartlett's X2)		0.20	0.937	.	.
Replicate F		2.718	4.900	0.000	0.000
Replicate Prob(F)		0.1006	0.0244	1.0000	1.0000
Treatment F		105.842	126.194	0.000	0.000
Treatment Prob(F)		0.0001	0.0001	1.0000	1.0000

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 Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	O Other	W Weed	W Weed	W Weed					
Pest Code	IPOHE		SETFA	ECHCG	AMBTR					
Pest Name	ivy-leaf morni>		Giant foxtail	Common barnyar>	Giant ragweed					
Crop Code		GLXMA								
Crop Name		Soybean								
Rating Date	Jul-10-2017	Jul-27-2017	Jul-27-2017	Jul-27-2017	Jul-27-2017					
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	52 28	69 45	69 45	69 45	69 45					
Days After Emergence	42 DE-1	59 DE-1	59 DE-1	59 DE-1	59 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Code	23	24	25	26	27
1	Trivence @ 8 oz					100.0 a	0.0 a	94.3 a	85.0 b	75.0 ab
1	Valor SX	2 oz/a			A					
1	Classic	1.25 oz/a			A					
1	Metribuzin	4.76 oz/a			A					
1	Abundit Edge	32 oz/a			B					
1	Fexapan	22 oz/a			B					
2	Trivence @ 8 oz					91.7 b	0.0 a	98.7 a	97.7 a	78.3 ab
2	Valor SX	2 oz/a			A					
2	Classic	1.25 oz/a			A					
2	Metribuzin	4.76 oz/a			A					
2	Abundit Edge	32 oz/a			B					
2	Fexapan	22 oz/a			B					
2	Cinch	1 pt/a			B					
3	Envive @ 3.5 oz					96.7 ab	0.0 a	95.0 a	85.0 b	85.0 a
3	Classic	1.28 oz/a			A					
3	Valor SX	1.96 oz/a			A					
3	Thifensulfuron	0.208 oz/a			A					
3	Abundit Edge	32 oz/a			B					
3	Fexapan	22 oz/a			B					
4	Envive @ 3.5 oz					100.0 a	0.0 a	99.3 a	97.7 a	83.3 a
4	Classic	1.28 oz/a			A					
4	Valor SX	1.96 oz/a			A					
4	Thifensulfuron	0.208 oz/a			A					
4	Abundit Edge	32 oz/a			B					
4	Fexapan	22 oz/a			B					
4	Cinch	1 pt/a			B					
5	Canopy	6 oz/a			A	100.0 a	0.0 a	95.0 a	91.7 ab	85.0 a
5	Cinch	1 pt/a			A					
5	Abundit Edge	32 oz/a			B					
5	Fexapan	22 oz/a			B					
6	Canopy	6 oz/a			A	93.3 ab	0.0 a	97.7 a	96.7 a	70.0 b
6	Cinch	1 pt/a			A					
6	Abundit Edge	32 oz/a			B					
6	Fexapan	22 oz/a			B					
6	Cinch	1 pt/a			B					
7	Canopy	4 oz/a			A	95.0 ab	0.0 a	96.0 a	88.3 ab	80.0 ab
7	Abundit Edge	32 oz/a			B					
7	Fexapan	22 oz/a			B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	O Other	W Weed	W Weed	W Weed
Pest Code	IPOHE		SETFA	ECHCG	AMBTR
Pest Name	ivy-leaf morni>		Giant foxtail	Common barnyar>	Giant ragweed
Crop Code		GLXMA			
Crop Name		Soybean			
Rating Date	Jul-10-2017	Jul-27-2017	Jul-27-2017	Jul-27-2017	Jul-27-2017
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	52 28	69 45	69 45	69 45	69 45
Days After Emergence	42 DE-1	59 DE-1	59 DE-1	59 DE-1	59 DE-1
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	
8		23	24	25	26 27
		0.0 c	0.0 a	0.0 b	0.0 c 0.0 c
LSD P=.05		7.91	.	6.38	11.10 12.87
Standard Deviation		4.52	0.00	3.64	6.34 7.35
CV		5.34	0.0	4.31	7.9 10.56
Bartlett's X2		0.37	0.0	6.755	8.076 0.642
P(Bartlett's X2)		0.946	.	0.344	0.233 0.986
Replicate F		0.358	0.000	0.792	2.029 6.730
Replicate Prob(F)		0.7055	1.0000	0.4723	0.1683 0.0090
Treatment F		173.401	0.000	264.467	80.632 45.388
Treatment Prob(F)		0.0001	1.0000	0.0001	0.0001 0.0001

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 Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	CHEAL	AMARE	SIDSP	IPOHE					
Pest Name	common lambsqu> Redroot pigweed Prickly sida ivy-leaf morni>								
Crop Code									
Crop Name									
Rating Date	Jul-27-2017	Jul-27-2017	Jul-27-2017	Jul-27-2017					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1 1					
Days After First/Last Applic.	69 45	69 45	69 45	69 45					
Days After Emergence	59 DE-1	59 DE-1	59 DE-1	59 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	28	29	30	31	32
1	Trivence @ 8 oz				100.0 a	100.0 a	100.0 a	100.0 a	
1	Valor SX	2 oz/a		A					
1	Classic	1.25 oz/a		A					
1	Metribuzin	4.76 oz/a		A					
1	Abundit Edge	32 oz/a		B					
1	Fexapan	22 oz/a		B					
2	Trivence @ 8 oz				100.0 a	100.0 a	100.0 a	100.0 a	
2	Valor SX	2 oz/a		A					
2	Classic	1.25 oz/a		A					
2	Metribuzin	4.76 oz/a		A					
2	Abundit Edge	32 oz/a		B					
2	Fexapan	22 oz/a		B					
2	Cinch	1 pt/a		B					
3	Envive @ 3.5 oz				100.0 a	100.0 a	100.0 a	100.0 a	
3	Classic	1.28 oz/a		A					
3	Valor SX	1.96 oz/a		A					
3	Thifensulfuron	0.208 oz/a		A					
3	Abundit Edge	32 oz/a		B					
3	Fexapan	22 oz/a		B					
4	Envive @ 3.5 oz				100.0 a	100.0 a	100.0 a	100.0 a	
4	Classic	1.28 oz/a		A					
4	Valor SX	1.96 oz/a		A					
4	Thifensulfuron	0.208 oz/a		A					
4	Abundit Edge	32 oz/a		B					
4	Fexapan	22 oz/a		B					
4	Cinch	1 pt/a		B					
5	Canopy	6 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
5	Cinch	1 pt/a		A					
5	Abundit Edge	32 oz/a		B					
5	Fexapan	22 oz/a		B					
6	Canopy	6 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
6	Cinch	1 pt/a		A					
6	Abundit Edge	32 oz/a		B					
6	Fexapan	22 oz/a		B					
6	Cinch	1 pt/a		B					
7	Canopy	4 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
7	Abundit Edge	32 oz/a		B					
7	Fexapan	22 oz/a		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

The Ohio State University

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		CHEAL	AMARE	SIDSP	IPOHE
Pest Name		common lambsqu>	Redroot pigweed	Prickly sida	ivy-leaf morni>
Crop Code					
Crop Name					
Rating Date		Jul-27-2017	Jul-27-2017	Jul-27-2017	Jul-27-2017
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%
Number of Subsamples		1	1	1	1 1
Days After First/Last Applic.		69 45	69 45	69 45	69 45
Days After Emergence		59 DE-1	59 DE-1	59 DE-1	59 DE-1
Trt Treatment	Other Other	Appl			
No. Name	Rate Rate	Unit Code	28	29	30
8			0.0 b	0.0 b	0.0 b
LSD P=.05			.	.	.
Standard Deviation			0.00	0.00	0.00
CV			0.0	0.0	0.0
Bartlett's X2			0.0	0.0	0.0
P(Bartlett's X2)			.	.	.
Replicate F			0.000	0.000	0.000
Replicate Prob(F)			1.0000	1.0000	1.0000
Treatment F			0.000	0.000	0.000
Treatment Prob(F)			1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Could not calculate LSD (% mean diff) for columns 1,5,6,7,8,12,13,14,16,20,21,22,24,28,29,30,31,32 because error mean square = 0.

The Ohio State University

FeXapan in conventional-till 2 pass programs for RR2X soybeans

Trial ID: 17 FEXSOY
Protocol ID: 17 FEXSOY
Project ID: US 133 17 01

Location: F-7 East Trial Year: 2017
Investigator: Dr. Mark M. Loux
Study Director: Bryan Reeb
Sponsor Contact: Marsha Martin, DuPont

Pest Type

O, Other, G-BYRO7, G-OthStg = Other animal or nematode
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
SIDSP, Sida spinosa, Prickly sida = US
IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent