

Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean

Trial ID: 17S-TPAC-SOY-24
 Protocol ID: 17S-TPAC-SOY-24
 Project ID: USA-17-133

Location: TPAC Trial Year: 2017
 Investigator: Dr. Bill Johnson
 Study Director: Dustin Johnson
 Sponsor Contact: K. Backscheider - DuPont

General Trial Information

Study Director: Dustin Johnson **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: May-17-2017

Trial Location

City: Lafayette **Country:** USA United States
State/Prov.: Indiana
Postal Code: 47909

Latitude of LL Corner °: 40.29176 N
Longitude of LL Corner °: 86.90678 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Dustin Johnson **Title:** Research Associate
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** john1357@purdue.edu
Country: USA United States

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 W. State Street
City+State/Prov: West Lafayette, IN
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Country: USA United States

Cooperator/Landowner

Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: XTEND AG30X6
Description: DICAMBA/RR

Planting Rate, Unit: 155000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 69 F
Soil Moisture: SLIDRY slightly dry

Planting Date: May-17-2017
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: May-27-2017

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 10
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

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Application Description

	A	B
Application Date:	May-18-2017	Jun-6-2017
Appl. Start Time:	5:56 PM	10:00 AM
Appl. Stop Time:	6:11 PM	10:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPLA	POSPOS
Application Placement:	BROADC	BROADC
Applied By:	B. MANSFIEL	J. HARMON
Air Temperature, Unit:	86 F	61 F
% Relative Humidity:	42	75
Wind Velocity, Unit:	14 MPH	10 MPH
Wind Direction:	SW	ENE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	80 F	71 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	50	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		11
Stage Minimum, Percent:		11
Stage Maximum, Percent:		12
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 2

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		16
Stage Minimum, Percent:		10
Stage Maximum, Percent:		19
Height, Unit:		3 IN
Height Minimum, Maximum:		0.5 10
Density, Unit:		13 FT2

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Application Equipment		
	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	29 PSI	29 PSI
Nozzle Type:	TTI	TTI
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 liters	1.8 liters
Propellant:	COMCO2	COMCO2

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (1.5642 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Unit	Appl Code	Amt to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED CHECK								101	405	504	704
2	TRIVENCE @ 8 OZ/A								102	304	505	705
	VALOR SX	51 %		WG	2 oz/a		A	1.797 g/mx				
	CLASSIC	25 %		WG	1.28 oz/a		A	1.15 g/mx				
	TRICOR DF	75 %		DF	4.75 oz/a		A	4.269 g/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
3	TRIVENCE @ 8 OZ/A								103	301	501	801
	VALOR SX	51 %		WG	2 oz/a		A	1.797 g/mx				
	CLASSIC	25 %		WG	1.28 oz/a		A	1.15 g/mx				
	TRICOR DF	75 %		DF	4.75 oz/a		A	4.269 g/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
	CINCH	7.64 LB/GAL		EC	1 pt/a		B	15.0 ml/mx				
4	ENVIVE @ 3.5 OZ/A								104	404	605	802
	VALOR SX	51 %		WG	2 oz/a		A	1.797 g/mx				
	CLASSIC	25 %		WG	1.28 oz/a		A	1.15 g/mx				
	HARMONY SG	50 %		SG	0.2 oz/a		A	0.1797 g/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
5	ENVIVE @ 3.5 OZ/A								105	305	602	703
	VALOR SX	51 %		WG	2 oz/a		A	1.797 g/mx				
	CLASSIC	25 %		WG	1.28 oz/a		A	1.15 g/mx				
	HARMONY SG	50 %		SG	0.2 oz/a		A	0.1797 g/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
	CINCH	7.64 LB/GAL		EC	1 pt/a		B	15.0 ml/mx				
6	CANOPY	75 %		WG	6 oz/a		A	5.392 g/mx	201	403	604	702
	CINCH	7.64 LB/GAL		EC	1 pt/a		A	15.0 ml/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
7	CANOPY	75 %		WG	6 oz/a		A	5.392 g/mx	202	402	601	803
	CINCH	7.64 LB/GAL		EC	1 pt/a		A	15.0 ml/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
	CINCH	7.64 LB/GAL		EC	1 pt/a		B	15.0 ml/mx				
8	CANOPY	75 %		WG	3.5 oz/a		A	3.145 g/mx	203	401	503	805
	CINCH	7.64 LB/GAL		EC	1 pt/a		A	15.0 ml/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
9	CANOPY	75 %		WG	3.5 oz/a		A	3.145 g/mx	204	302	502	804
	CINCH	7.64 LB/GAL		EC	1 pt/a		A	15.0 ml/mx				
	ABUNDIT EDGE	4.5 LB/GAL		SL	32.00 fl oz/a		B	30.0 ml/mx				
	FEXAPAN	2.9 LB/GAL		SL	22.00 fl oz/a		B	20.62 ml/mx				
	CINCH	7.64 LB/GAL		EC	1 pt/a		B	15.0 ml/mx				
10	SONIC	70 %		WG	4.5 oz/a		A	4.044 g/mx	205	303	603	701
	DURANGO DMA	4 LBAE/GAL		SL	1 qt/a		B	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v		B	45.0 ml/mx				

Sort Order: Replicate 1

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

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
8.987	g	VALOR SX	51	%	WG	
5.752	g	CLASSIC	25	%	WG	

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	Study Director: Dustin Johnson
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Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
10.672	g	TRICOR DF	75	%	DF	
300.000	ml	ABUNDIT EDGE	4.5	LB/GAL	SL	
206.250	ml	FEXAPAN	2.9	LB/GAL	SL	
150.000	ml	CINCH	7.64	LB/GAL	EC	
0.449	g	HARMONY SG	50	%	SG	
21.344	g	CANOPY	75	%	WG	
5.055	g	SONIC	70	%	WG	
37.500	ml	DURANGO DMA	4	LBAE/GAL	SL	
56.244	ml	N-PAK AMS	3.4	LBA/GAL	L	

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.

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Pest Type	W Weed		W Weed		W Weed		W Weed			
Pest Code	AMBTR		AMBTR		AMBTR		AMBTR			
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed		Giant ragweed			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-1-2017	Jun-1-2017	Jun-6-2017	Jun-6-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017		
Rating Type	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN		
Rating Unit	%	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1	1		
Assessed By	T. CAMPBELL	T. CAMPBELL	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER		
Rating Timing	A1	A1	A2	A2	A3	A3	A3	A3		
Days After First/Last Applic.	14 14	14 14	19 19	19 19	26 7	26 7	26 7	26 7		
Days After Emergence	5 DE-1	5 DE-1	10 DE-1	10 DE-1	17 DE-1	17 DE-1	17 DE-1	17 DE-1		
ARM Action Codes	P	P	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0	0	0		
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	Plot	1	2	3	4	5	6
1 UNTREATED CHECK			101		0	0	0	0	0	0
			405		0	0	0	0	0	0
			504		0	0	0	0	0	0
			704		0	0	0	0	0	0
			Mean =		0	0	0	0	0	0
2 TRIVENCE @ 8 OZ/A			102		20	0	20	0	98	2
VALOR SX	2 oz/a	A	304		20	0	20	0	95	2
CLASSIC	1.28 oz/a	A	505		55	0	65	0	98	3
TRICOR DF	4.75 oz/a	A	705		45	0	40	0	99	0
ABUNDIT EDGE	32.00 fl oz/a	B								
FEXAPAN	22.00 fl oz/a	B								
			Mean =		35	0	36	0	98	2
3 TRIVENCE @ 8 OZ/A			103		20	0	20	0	98	10
VALOR SX	2 oz/a	A	301		60	0	70	0	98	10
CLASSIC	1.28 oz/a	A	501		50	0	60	0	99	10
TRICOR DF	4.75 oz/a	A	801		20	0	20	0	96	7
ABUNDIT EDGE	32.00 fl oz/a	B								
FEXAPAN	22.00 fl oz/a	B								
CINCH	1 pt/a	B								
			Mean =		38	0	43	0	98	9
4 ENVIVE @ 3.5 OZ/A			104		10	0	10	0	93	5
VALOR SX	2 oz/a	A	404		10	0	10	0	90	2
CLASSIC	1.28 oz/a	A	605		30	0	30	0	93	2
HARMONY SG	0.2 oz/a	A	802		5	0	5	0	95	0
ABUNDIT EDGE	32.00 fl oz/a	B								
FEXAPAN	22.00 fl oz/a	B								
			Mean =		14	0	14	0	93	2
5 ENVIVE @ 3.5 OZ/A			105		5	0	5	0	93	15
VALOR SX	2 oz/a	A	305		5	0	5	0	90	15
CLASSIC	1.28 oz/a	A	602		5	0	5	0	90	5
HARMONY SG	0.2 oz/a	A	703		10	0	10	0	98	10
ABUNDIT EDGE	32.00 fl oz/a	B								
FEXAPAN	22.00 fl oz/a	B								
CINCH	1 pt/a	B								
			Mean =		6	0	6	0	93	11
6 CANOPY	6 oz/a	A	201		10	0	20	0	99	0
CINCH	1 pt/a	A	403		5	0	10	0	93	0
ABUNDIT EDGE	32.00 fl oz/a	B	604		5	0	10	0	93	3
FEXAPAN	22.00 fl oz/a	B	702		10	0	15	0	98	3
			Mean =		8	0	14	0	96	2
7 CANOPY	6 oz/a	A	202		10	0	20	0	98	10
CINCH	1 pt/a	A	402		15	0	25	0	93	10
ABUNDIT EDGE	32.00 fl oz/a	B	601		10	0	15	0	98	10
FEXAPAN	22.00 fl oz/a	B	803		15	0	15	0	97	7
CINCH	1 pt/a	B								
			Mean =		13	0	19	0	97	9

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Protocol ID: 17S-TPAC-SOY-24	Investigator: Dr. Bill Johnson
Project ID: USA-17-133	Study Director: Dustin Johnson
Sponsor Contact: K. Backscheider - DuPont	

Pest Type	W Weed		W Weed		W Weed	
Pest Code	AMBTR		AMBTR		AMBTR	
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed	
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-1-2017	Jun-1-2017	Jun-6-2017	Jun-6-2017	Jun-13-2017	Jun-13-2017
Rating Type	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	T. CAMPBELL	T. CAMPBELL	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER
Rating Timing	A1	A1	A2	A2	A3	A3
Days After First/Last Applic.	14 14	14 14	19 19	19 19	26 7	26 7
Days After Emergence	5 DE-1	5 DE-1	10 DE-1	10 DE-1	17 DE-1	17 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
8 CANOPY	3.5 oz/a A	203	20	0	30	0
CINCH	1 pt/a A	401	20	0	40	0
ABUNDIT EDGE	32.00 fl oz/a B	503	5	0	10	0
FEXAPAN	22.00 fl oz/a B	805	5	0	10	0
	Mean =		13	0	23	0
9 CANOPY	3.5 oz/a A	204	20	0	35	0
CINCH	1 pt/a A	302	10	0	10	0
ABUNDIT EDGE	32.00 fl oz/a B	502	10	0	10	0
FEXAPAN	22.00 fl oz/a B	804	20	0	15	0
CINCH	1 pt/a B					
	Mean =		15	0	18	0
10 SONIC	4.5 oz/a A	205	30	0	50	0
DURANGO DMA	1 qt/a B	303	10	0	10	0
N-PAK AMS	2.5 % v/v B	603	20	0	30	0
		701	50	0	60	0
	Mean =		28	0	38	0

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Pest Type	W Weed		W Weed		W Weed	
Pest Code	AMBTR		AMBTR		AMBTR	
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed	
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-20-2017	Jun-20-2017	Jul-5-2017	Jul-5-2017	Jul-19-2017	
Rating Type	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	D. JOHNSON	
Rating Timing	A4	A4	A5	A5	A6	
Days After First/Last Applic.	33 14	33 14	48 29	48 29	62 43	
Days After Emergence	24 DE-1	24 DE-1	39 DE-1	39 DE-1	53 DE-1	
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	7	8	9	10
1 UNTREATED CHECK		101	0	0	0	0
		405	0	0	0	0
		504	0	0	0	0
		704	0	0	0	0
	Mean =		0	0	0	0
2 TRIVENCE @ 8 OZ/A		102	99	0	95	0
VALOR SX	2 oz/a A	304	99	0	95	0
CLASSIC	1.28 oz/a A	505	99	0	99	0
TRICOR DF	4.75 oz/a A	705	99	0	98	0
ABUNDIT EDGE	32.00 fl oz/a B					
FEXAPAN	22.00 fl oz/a B					
	Mean =		99	0	97	0
3 TRIVENCE @ 8 OZ/A		103	99	2	95	0
VALOR SX	2 oz/a A	301	99	2	98	0
CLASSIC	1.28 oz/a A	501	99	2	98	0
TRICOR DF	4.75 oz/a A	801	100	2	93	0
ABUNDIT EDGE	32.00 fl oz/a B					
FEXAPAN	22.00 fl oz/a B					
CINCH	1 pt/a B					
	Mean =		99	2	96	0
4 ENVIVE @ 3.5 OZ/A		104	98	0	95	0
VALOR SX	2 oz/a A	404	97	0	96	0
CLASSIC	1.28 oz/a A	605	99	0	93	0
HARMONY SG	0.2 oz/a A	802	98	0	90	0
ABUNDIT EDGE	32.00 fl oz/a B					
FEXAPAN	22.00 fl oz/a B					
	Mean =		98	0	94	0
5 ENVIVE @ 3.5 OZ/A		105	97	4	95	0
VALOR SX	2 oz/a A	305	97	3	93	0
CLASSIC	1.28 oz/a A	602	99	2	90	0
HARMONY SG	0.2 oz/a A	703	99	3	93	0
ABUNDIT EDGE	32.00 fl oz/a B					
FEXAPAN	22.00 fl oz/a B					
CINCH	1 pt/a B					
	Mean =		98	3	93	0
6 CANOPY	6 oz/a A	201	99	0	93	0
CINCH	1 pt/a A	403	99	0	95	0
ABUNDIT EDGE	32.00 fl oz/a B	604	98	0	88	0
FEXAPAN	22.00 fl oz/a B	702	99	0	93	0
	Mean =		99	0	92	0
7 CANOPY	6 oz/a A	202	99	1	95	0
CINCH	1 pt/a A	402	98	3	95	0
ABUNDIT EDGE	32.00 fl oz/a B	601	99	1	95	0
FEXAPAN	22.00 fl oz/a B	803	99	2	95	0
CINCH	1 pt/a B					
	Mean =		99	2	95	0

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	Study Director: Dustin Johnson
	Sponsor Contact: K. Backscheider - DuPont

Pest Type	W Weed	GLXMA	W Weed	GLXMA	W Weed
Pest Code	AMBTR		AMBTR		AMBTR
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-20-2017	Jun-20-2017	Jul-5-2017	Jul-5-2017	Jul-19-2017
Rating Type	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	D. JOHNSON
Rating Timing	A4	A4	A5	A5	A6
Days After First/Last Applic.	33 14	33 14	48 29	48 29	62 43
Days After Emergence	24 DE-1	24 DE-1	39 DE-1	39 DE-1	53 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	7	8	9
8 CANOPY	3.5 oz/a A	203	99	0	96
CINCH	1 pt/a A	401	99	0	97
ABUNDIT EDGE	32.00 fl oz/a B	503	98	0	95
FEXAPAN	22.00 fl oz/a B	805	99	0	88
	Mean =		99	0	94
9 CANOPY	3.5 oz/a A	204	99	2	98
CINCH	1 pt/a A	302	98	2	95
ABUNDIT EDGE	32.00 fl oz/a B	502	97	2	95
FEXAPAN	22.00 fl oz/a B	804	98	2	95
CINCH	1 pt/a B				
	Mean =		98	2	96
10 SONIC	4.5 oz/a A	205	95	0	88
DURANGO DMA	1 qt/a B	303	93	0	85
N-PAK AMS	2.5 % v/v B	603	95	0	85
		701	98	0	90
	Mean =		95	0	87

Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean

Trial ID: 17S-TPAC-SOY-24
Protocol ID: 17S-TPAC-SOY-24
Project ID: USA-17-133

Location: TPAC Trial Year: 2017
Investigator: Dr. Bill Johnson
Study Director: Dustin Johnson
Sponsor Contact: K. Backscheider - DuPont

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLOT = plot

Rating Type

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

A6 = 6th Assessment according to Trial Schedule

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean

Trial ID: 17S-TPAC-SOY-24 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-SOY-24 Investigator: Dr. Bill Johnson
 Project ID: USA-17-133 Study Director: Dustin Johnson
 Sponsor Contact: K. Backscheider - DuPont

Pest Type	W Weed	GLXMA	W Weed	GLXMA	W Weed	GLXMA		
Pest Code	AMBTR		AMBTR		AMBTR			
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-1-2017	Jun-1-2017	Jun-6-2017	Jun-6-2017	Jun-13-2017	Jun-13-2017		
Rating Type	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Assessed By	T. CAMPBELL	T. CAMPBELL	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER		
Rating Timing	A1	A1	A2	A2	A3	A3		
Days After First/Last Applic.	14 14	14 14	19 19	19 19	26 7	26 7		
Days After Emergence	5 DE-1	5 DE-1	10 DE-1	10 DE-1	17 DE-1	17 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 UNTREATED CHECK			0 c	0 a	0 b	0 a	0 b	0 b
2 TRIVENCE @ 8 OZ/A			35 a	0 a	36 a	0 a	98 a	2 b
VALOR SX	2 oz/a A							
CLASSIC	1.28 oz/a A							
TRICOR DF	4.75 oz/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
3 TRIVENCE @ 8 OZ/A			38 a	0 a	43 a	0 a	98 a	9 a
VALOR SX	2 oz/a A							
CLASSIC	1.28 oz/a A							
TRICOR DF	4.75 oz/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
CINCH	1 pt/a B							
4 ENVIVE @ 3.5 OZ/A			14 abc	0 a	14 ab	0 a	93 a	2 b
VALOR SX	2 oz/a A							
CLASSIC	1.28 oz/a A							
HARMONY SG	0.2 oz/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
5 ENVIVE @ 3.5 OZ/A			6 bc	0 a	6 ab	0 a	93 a	11 a
VALOR SX	2 oz/a A							
CLASSIC	1.28 oz/a A							
HARMONY SG	0.2 oz/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
CINCH	1 pt/a B							
6 CANOPY	6 oz/a A		8 bc	0 a	14 ab	0 a	96 a	2 b
CINCH	1 pt/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
7 CANOPY	6 oz/a A		13 abc	0 a	19 ab	0 a	97 a	9 a
CINCH	1 pt/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
CINCH	1 pt/a B							
8 CANOPY	3.5 oz/a A		13 abc	0 a	23 ab	0 a	96 a	3 b
CINCH	1 pt/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
9 CANOPY	3.5 oz/a A		15 abc	0 a	18 ab	0 a	96 a	9 a
CINCH	1 pt/a A							
ABUNDIT EDGE	32.00 fl oz/a B							
FEXAPAN	22.00 fl oz/a B							
CINCH	1 pt/a B							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,4,10 because error mean square = 0.

Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean	
Trial ID: 17S-TPAC-SOY-24	Location: TPAC Trial Year: 2017
Protocol ID: 17S-TPAC-SOY-24	Investigator: Dr. Bill Johnson
Project ID: USA-17-133	Study Director: Dustin Johnson
Sponsor Contact: K. Bakscheider - DuPont	

Pest Type	W Weed	AMBTR	Giant ragweed	W Weed	AMBTR	Giant ragweed	W Weed	AMBTR	Giant ragweed
Pest Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Pest Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Code	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Crop Name	Jun-1-2017	Jun-1-2017	Jun-6-2017	Jun-6-2017	Jun-6-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017	Jun-13-2017
Part Rated	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN	PHYGEN
Rating Date	%	%	%	%	%	%	%	%	%
Rating Type	1	1	1	1	1	1	1	1	1
Rating Unit	T. CAMPBELL	T. CAMPBELL	D. JOHNSON	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Number of Subsamples Assessed By									
Rating Timing	A1	A1	A2	A2	A2	A3	A3	A3	A3
Days After First/Last Applic.	14 14	14 14	19 19	19 19	19 19	26 7	26 7	26 7	26 7
Days After Emergence	5 DE-1	5 DE-1	10 DE-1	10 DE-1	10 DE-1	17 DE-1	17 DE-1	17 DE-1	17 DE-1
ARM Action Codes	P	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0	0
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	
10 SONIC	4.5 oz/a	A	28 ab	0 a	38 a	0 a	96 a	0 b	
DURANGO DMA	1 qt/a	B							
N-PAK AMS	2.5 % v/v	B							
LSD P=.05	17.1	.	22.4	.	3.2	2.8			
Standard Deviation	11.8	0.0	15.4	0.0	2.2	1.9			
CV	70.17	0.0	73.94	0.0	2.59	41.05			
Bartlett's X2	23.139	0.0	19.867	0.0	5.758	14.255			
P(Bartlett's X2)	0.003*	.	0.011*	.	0.674	0.047*			
Skewness	1.4465*	.	1.2596*	.	-2.7221*	0.6356			
Kurtosis	1.4503	.	0.848	.	5.8081*	-0.8358			
Replicate F	0.320	0.000	0.157	0.000	5.643	1.433			
Replicate Prob(F)	0.8110	1.0000	0.9245	1.0000	0.0039	0.2550			
Treatment F	4.516	0.000	3.265	0.000	738.297	21.370			
Treatment Prob(F)	0.0011	1.0000	0.0082	1.0000	0.0001	0.0001			

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
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Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean

Trial ID: 17S-TPAC-SOY-24 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-SOY-24 Investigator: Dr. Bill Johnson
 Project ID: USA-17-133 Study Director: Dustin Johnson
 Sponsor Contact: K. Backscheider - DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR			
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean			
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -			
Rating Date	Jun-20-2017	Jun-20-2017	Jul-5-2017	Jul-5-2017	Jul-19-2017			
Rating Type	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	D. JOHNSON			
Rating Timing	A4	A4	A5	A5	A6			
Days After First/Last Applic.	33 14	33 14	48 29	48 29	62 43			
Days After Emergence	24 DE-1	24 DE-1	39 DE-1	39 DE-1	53 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Appl						
No. Name	Rate	Unit	Code	7	8	9	10	11
1 UNTREATED CHECK				0 c	0 c	0 c	0 a	0 c
2 TRIVENCE @ 8 OZ/A				99 a	0 c	97 a	0 a	80 a
VALOR SX	2 oz/a	A						
CLASSIC	1.28 oz/a	A						
TRICOR DF	4.75 oz/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
3 TRIVENCE @ 8 OZ/A				99 a	2 b	96 a	0 a	80 a
VALOR SX	2 oz/a	A						
CLASSIC	1.28 oz/a	A						
TRICOR DF	4.75 oz/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
CINCH	1 pt/a	B						
4 ENVIVE @ 3.5 OZ/A				98 a	0 c	94 a	0 a	70 a
VALOR SX	2 oz/a	A						
CLASSIC	1.28 oz/a	A						
HARMONY SG	0.2 oz/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
5 ENVIVE @ 3.5 OZ/A				98 a	3 a	93 a	0 a	65 a
VALOR SX	2 oz/a	A						
CLASSIC	1.28 oz/a	A						
HARMONY SG	0.2 oz/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
CINCH	1 pt/a	B						
6 CANOPY	6 oz/a	A		99 a	0 c	92 a	0 a	62 a
CINCH	1 pt/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
7 CANOPY	6 oz/a	A		99 a	2 b	95 a	0 a	73 a
CINCH	1 pt/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
CINCH	1 pt/a	B						
8 CANOPY	3.5 oz/a	A		99 a	0 c	94 a	0 a	72 a
CINCH	1 pt/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
9 CANOPY	3.5 oz/a	A		98 a	2 b	96 a	0 a	76 a
CINCH	1 pt/a	A						
ABUNDIT EDGE	32.00 fl oz/a	B						
FEXAPAN	22.00 fl oz/a	B						
CINCH	1 pt/a	B						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
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Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean					
Trial ID: 17S-TPAC-SOY-24		Location: TPAC		Trial Year: 2017	
Protocol ID: 17S-TPAC-SOY-24		Investigator: Dr. Bill Johnson			
Project ID: USA-17-133		Study Director: Dustin Johnson			
Sponsor Contact: K. Backscheider - DuPont					

Pest Type	W Weed		W Weed		W Weed		
Pest Code	AMBTR		AMBTR		AMBTR		
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed		
Crop Code	GLXMA		GLXMA		GLXMA		
Crop Name	Soybean		Soybean		Soybean		
Part Rated	PLOT -		PLOT -		PLOT -		
Rating Date	Jun-20-2017	Jun-20-2017	Jul-5-2017	Jul-5-2017	Jul-19-2017		
Rating Type	CONTROL		CONTROL		CONTROL		
Rating Unit	%		%		%		
Number of Subsamples	1		1		1		
Assessed By	M. ZIMMER		M. ZIMMER		D. JOHNSON		
Rating Timing	A4		A5		A6		
Days After First/Last Applic.	33 14	33 14	48 29	48 29	62 43		
Days After Emergence	24 DE-1		39 DE-1		53 DE-1		
ARM Action Codes	P		P		P		
Number of Decimals	0		0		0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	7	8	9	10	11
10 SONIC	4.5 oz/a	A	95 b	0 c	87 b	0 a	44 b
DURANGO DMA	1 qt/a	B					
N-PAK AMS	2.5 % v/v	B					
LSD P=.05	1.2	0.6	3.4	.	11.5		
Standard Deviation	0.8	0.4	2.3	0.0	7.9		
CV	0.94	45.48	2.78	0.0	12.74		
Bartlett's X2	12.518	0.074	3.409	0.0	2.072		
P(Bartlett's X2)	0.085	0.785	0.845	.	0.979		
Skewness	-2.7615*	0.9422*	-2.7022*	.	-1.5955*		
Kurtosis	5.9435*	-0.3739	5.7361*	.	2.033*		
Replicate F	2.446	1.000	1.054	0.000	3.465		
Replicate Prob(F)	0.0855	0.4079	0.3849	1.0000	0.0300		
Treatment F	5583.555	34.825	643.171	0.000	37.560		
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000	0.0001		

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,4,10 because error mean square = 0.

Purdue Weed Science

FeXapan in conventional-till 2-pass programs for RR2X soybean

Trial ID: 17S-TPAC-SOY-24 Location: TPAC Trial Year: 2017
Protocol ID: 17S-TPAC-SOY-24 Investigator: Dr. Bill Johnson
Project ID: USA-17-133 Study Director: Dustin Johnson
Sponsor Contact: K. Backscheider - DuPont

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLOT = plot

Rating Type

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

A6 = 6th Assessment according to Trial Schedule

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)