

## Purdue Weed Science

### Two-Pass Conventional Till Programs for Xtend Soybean

Trial ID: 16S-TPAC-SOY-19      Location: TPAC      Trial Year: 2016  
 Protocol ID: 16S-TPAC-SOY-19      Investigator: Dr. Bill Johnson  
 Project ID: USA-16-133      Study Director: Joe Ikley  
 Sponsor Contact: Dupont - Kelly Barnett

### General Trial Information

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

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

### Contacts

**Study Director:** Joe Ikley      **Title:** Research Associate  
**Organization:** Purdue University  
**Address:** 915 West State Street      **Phone No.:** 765-494-0891  
**City+State/Prov:** West Lafayette      **Mobile No.:** 410-596-9091  
**Postal Code:** 47907      **E-mail:** jikley@purdue.edu

**Investigator:** Dr. Bill Johnson      **Title:** Professor  
**Organization:** Purdue University  
**Address:** 915 West State Street      **Phone No.:** 765-494-4656  
**City+State/Prov:** West Lafayette      **Mobile No.:** 765-404-9801  
**Postal Code:** 47907      **E-mail:** wgj@purdue.edu

### 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:** AG30X6  
**Description:** XTEND  
**Planting Rate, Unit:** 140000 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 15 IN  
**Soil Temperature, Unit:** 60 F  
**Soil Moisture:** SLIWET slightly wet, moist  
**Planting Date:** May-16-2016  
**Planting Method:** SEEDED seeded  
**Planting Equipment:** PP Plot Planter  
**Emergence Date:** May-25-2016

### Pest Description

**Pest 1 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed  
**Pest 2 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

### Site and Design

**Treated Plot Width:** 10 FT      **Site Type:** FIELD field  
**Treated Plot Length:** 30 FT      **Experimental Unit:** 1 PLOT plot  
**Treated Plot Area:** 300 FT2      **Treatments:** 10      **Tillage Type:** CONTIL conventional-till  
**Replications:** 4      **Study Design:** RACOB� Randomized Complete Block (RCB)

### Soil Description

**Description Name:** TPAC - Field 4B  
**% OM:** 2.9      **Texture:** SIL silt loam  
**pH:** 6.2      **Soil Name:** Toronto-Millbrook  
**CEC:** 13.3

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	Sponsor Contact: Dupont - Kelly Barnett	

### Application Description

	A	B
<b>Application Date:</b>	May-18-2016	Jun-7-2016
<b>Appl. Start Time:</b>	10:00 AM	7:15 AM
<b>Appl. Stop Time:</b>	10:30 AM	7:45 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	POST
<b>Application Placement:</b>	BROADC	BROADC
<b>Applied By:</b>	TC	TC
<b>Air Temperature, Unit:</b>	58 F	55 F
<b>% Relative Humidity:</b>	70	90
<b>Wind Velocity, Unit:</b>	5 MPH	2 MPH
<b>Wind Direction:</b>	ENE	W
<b>Dew Presence (Y/N):</b>	N no	Y yes
<b>Soil Temperature, Unit:</b>	58 F	65 F
<b>Soil Moisture:</b>	NORMAL	WET
<b>% Cloud Cover:</b>	30	0

### Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		BBCH
<b>Stage Majority, Percent:</b>		13
<b>Stage Minimum, Percent:</b>		12
<b>Stage Maximum, Percent:</b>		13
<b>Height, Unit:</b>		4 IN
<b>Height Minimum, Maximum:</b>		3 5

### Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		32G
<b>Stage Minimum, Percent:</b>		31G
<b>Stage Maximum, Percent:</b>		33G
<b>Height, Unit:</b>		3.5 IN
<b>Height Minimum, Maximum:</b>		2 5
<b>Density, Unit:</b>		50 YD2
<b>Pest 2 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		12
<b>Stage Minimum, Percent:</b>		11
<b>Stage Maximum, Percent:</b>		13
<b>Height, Unit:</b>		2 IN
<b>Height Minimum, Maximum:</b>		1 3
<b>Density, Unit:</b>		75 YD2

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### Application Equipment

	A	B
<b>Appl. Equipment:</b>	CO2 BACKPACK	CO2 BACKPACK
<b>Equipment Type:</b>	BACSPR	BACSPR
<b>Operation Pressure, Unit:</b>	18 PSI	28 PSI
<b>Nozzle Type:</b>	FLAT FAN	TTI
<b>Nozzle Size:</b>	XR 11002	110015
<b>Nozzle Spacing, Unit:</b>	15 IN	15 IN
<b>Nozzles/Row:</b>	8	8
<b>Boom Length, Unit:</b>	10 FT	10 FT
<b>Boom Height, Unit:</b>	17 IN	17 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	MEIGS	MEIGS
<b>Spray Volume, Unit:</b>	15 gal/ac	15 gal/ac
<b>Mix Size, Unit:</b>	1.8 liters	1.8 liters
<b>Propellant:</b>	CO2	CO2

### Trial Comments

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Amt to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check								101	402	603	805
2	TRIVENCE @ 8 OZ/A CLASSIC	25 %	AW/W	DF	1.28 oz/a		A	1.15 g/mx	102	403	602	803
	SENCOR 75DF	75 %	AW/W	DF	4.75 oz/a		A	4.269 g/mx				
	VALOR	51 %		WG	2 oz/a		A	1.797 g/mx				
	ROUNDUP POWERMAX D1691	4.5 LBAE/GAL		SL	22 fl oz/a		B	20.62 ml/mx				
		4 LBAE/GAL		L	8 fl oz/a		B	7.5 ml/mx				
3	TRIVENCE @ 8 OZ/A CLASSIC	25 %	AW/W	DF	1.28 oz/a		A	1.15 g/mx	103	404	601	705
	SENCOR 75DF	75 %	AW/W	DF	4.75 oz/a		A	4.269 g/mx				
	VALOR	51 %		WG	2 oz/a		A	1.797 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		B	20.62 ml/mx				
	CINCH	7.64 LB/GAL		EC	1 pt/a		B	15.0 ml/mx				
	D1691	4 LBAE/GAL		L	8 fl oz/a		B	7.5 ml/mx				
4	ENVIVE @ 3.5 OZ/A VALOR	51 %		WG	1.02 oz ai/a		A	1.797 g/mx	104	405	502	703
	CLASSIC	25 %	AW/W	DF	0.32 oz ai/a		A	1.15 g/mx				
	HARMONY SG	50 %		SG	0.10 oz ai/a		A	0.1797 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		B	20.62 ml/mx				
	D1691	4 LBAE/GAL		L	8 fl oz/a		B	7.5 ml/mx				
5	ENVIVE @ 3.5 OZ/A VALOR	51 %		WG	1.02 oz ai/a		A	1.797 g/mx	105	401	504	704
	CLASSIC	25 %	AW/W	DF	0.32 oz ai/a		A	1.15 g/mx				
	HARMONY SG	50 %		SG	0.10 oz ai/a		A	0.1797 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		B	20.62 ml/mx				
	CINCH	7.64 LB/GAL		EC	1 pt/a		B	15.0 ml/mx				
	D1691	4 LBAE/GAL		L	8 fl oz/a		B	7.5 ml/mx				

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
6	ENVIVE @ 3.5 OZ/A						201	303	604	804
	VALOR	51 %	WG	1.02 oz ai/a	A	1.797 g/mx				
	CLASSIC	25 %	DF	0.32 oz ai/a	A	1.15 g/mx				
	HARMONY SG	50 %	SG	0.10 oz ai/a	A	0.1797 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	22 fl oz/a	B	20.62 ml/mx				
PREFIX	5.29 LB/GAL	EC	2 pt/a	B	30.0 ml/mx					
7	CANOPY BLEND @ 7.5 OZ/A						202	304	503	701
	CLASSIC	25 %	WG	0.62 oz ai/a	A	2.229 g/mx				
	SENCOR	75 %	WG	3.75 oz ai/a	A	4.493 g/mx				
	CINCH	7.64 LB/GAL	EC	1 pt/a	A	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	22 fl oz/a	B	20.62 ml/mx				
D1691	4 LBAE/GAL	L	8 fl oz/a	B	7.5 ml/mx					
8	CANOPY BLEND @ 7.5 OZ/A						203	302	505	801
	CLASSIC	25 %	WG	0.62 oz ai/a	A	2.229 g/mx				
	SENCOR	75 %	WG	3.75 oz ai/a	A	4.493 g/mx				
	CINCH	7.64 LB/GAL	EC	1 pt/a	A	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	22 fl oz/a	B	20.62 ml/mx				
CINCH	7.64 LB/GAL	EC	1 pt/a	B	15.0 ml/mx					
D1691	4 LBAE/GAL	L	8 fl oz/a	B	7.5 ml/mx					
9	CANOPY BLEND @ 4.5 OZ/A						204	305	501	802
	CLASSIC	25 %	WG	0.37 oz ai/a	A	1.33 g/mx				
	SENCOR	75 %	WG	2.25 oz ai/a	A	2.696 g/mx				
	CINCH	7.64 LB/GAL	EC	1 pt/a	A	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	22 fl oz/a	B	20.62 ml/mx				
D1691	4 LBAE/GAL	L	8 fl oz/a	B	7.5 ml/mx					
10	CANOPY BLEND @ 4.5 OZ/A						205	301	605	702
	CLASSIC	25 %	WG	0.37 oz ai/a	A	1.33 g/mx				
	SENCOR	75 %	WG	2.25 oz ai/a	A	2.696 g/mx				
	CINCH	7.64 LB/GAL	EC	1 pt/a	A	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	22 fl oz/a	B	20.62 ml/mx				
CINCH	7.64 LB/GAL	EC	1 pt/a	B	15.0 ml/mx					
D1691	4 LBAE/GAL	L	8 fl oz/a	B	7.5 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 Type	Lot Code
7.190	g	CLASSIC	25	DF	
10.672	g	SENCOR 75DF	75	DF	
11.234	g	VALOR	51	WG	
232.031	ml	ROUNDUP POWERMAX	4.5	SL	
75.000	ml	D1691	4	L	
150.000	ml	CINCH	7.64	EC	
0.674	g	HARMONY SG	50	SG	
37.500	ml	PREFIX	5.29	EC	
8.897	g	CLASSIC	25	WG	
17.974	g	SENCOR	75	WG	

\* '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.

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Location: TPAC      Trial Year: 2016  
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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA	AMBTR
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	Jun-7-2016	Jun-7-2016	Jun-21-2016	Jun-21-2016	Jul-5-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	20 20	20 20	34 14	34 14	48 28
Trt-Eval Interval	0 DA-B	0 DA-B	14 DA-B	14 DA-B	28 DA-B
Days After Emergence	13 DE-1	13 DE-1	27 DE-1	27 DE-1	41 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	1	2	3
1 Untreated Check		101	0	0	0
		402	0	0	0
		603	0	0	0
		805	0	0	0
		Mean =	0	0	0
2 TRIVENCE @ 8 OZ/A		102	0	0	95
CLASSIC	1.28 oz/a A	403	0	0	95
SENCOR 75DF	4.75 oz/a A	602	0	50	80
VALOR	2 oz/a A	803	0	0	97
ROUNDUP POWERMAX	22 fl oz/a B				99
D1691	8 fl oz/a B				
		Mean =	0	13	92
3 TRIVENCE @ 8 OZ/A		103	0	0	95
CLASSIC	1.28 oz/a A	404	0	0	70
SENCOR 75DF	4.75 oz/a A	601	0	0	95
VALOR	2 oz/a A	705	20	0	90
ROUNDUP POWERMAX	22 fl oz/a B				100
CINCH	1 pt/a B				
D1691	8 fl oz/a B				
		Mean =	5	0	88
4 ENVIVE @ 3.5 OZ/A		104	0	0	95
VALOR	1.02 oz ai/a A	405	0	0	92
CLASSIC	0.32 oz ai/a A	502	0	50	85
HARMONY SG	0.10 oz ai/a A	703	0	0	95
ROUNDUP POWERMAX	22 fl oz/a B				100
D1691	8 fl oz/a B				
		Mean =	0	13	92
5 ENVIVE @ 3.5 OZ/A		105	0	0	92
VALOR	1.02 oz ai/a A	401	0	0	100
CLASSIC	0.32 oz ai/a A	504	0	0	80
HARMONY SG	0.10 oz ai/a A	704	0	0	90
ROUNDUP POWERMAX	22 fl oz/a B				95
CINCH	1 pt/a B				
D1691	8 fl oz/a B				
		Mean =	0	0	91
6 ENVIVE @ 3.5 OZ/A		201	0	30	80
VALOR	1.02 oz ai/a A	303	0	0	80
CLASSIC	0.32 oz ai/a A	604	0	0	60
HARMONY SG	0.10 oz ai/a A	804	0	0	60
ROUNDUP POWERMAX	22 fl oz/a B				100
PREFIX	2 pt/a B				
		Mean =	0	8	70
7 CANOPY BLEND @ 7.5 OZ/A		202	0	0	95
CLASSIC	0.62 oz ai/a A	304	0	0	90
SENCOR	3.75 oz ai/a A	503	0	50	99
CINCH	1 pt/a A	701	0	50	100
ROUNDUP POWERMAX	22 fl oz/a B				100
D1691	8 fl oz/a B				
		Mean =	0	25	96

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 Sponsor Contact: Dupont - Kelly Barnett

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA	AMBTR
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	Jun-7-2016	Jun-7-2016	Jun-21-2016	Jun-21-2016	Jul-5-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	20 20	20 20	34 14	34 14	48 28
Trt-Eval Interval	0 DA-B	0 DA-B	14 DA-B	14 DA-B	28 DA-B
Days After Emergence	13 DE-1	13 DE-1	27 DE-1	27 DE-1	41 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	1	2	3
8 CANOPY BLEND @ 7.5 OZ/A		203	0	0	95
CLASSIC	0.62 oz ai/a A	302	0	0	90
SENCOR	3.75 oz ai/a A	505	0	0	90
CINCH	1 pt/a A	801	0	50	95
ROUNDUP POWERMAX	22 fl oz/a B				100
CINCH	1 pt/a B				
D1691	8 fl oz/a B				
	Mean =		0	13	93
9 CANOPY BLEND @ 4.5 OZ/A		204	0	0	95
CLASSIC	0.37 oz ai/a A	305	30	0	99
SENCOR	2.25 oz ai/a A	501	0	50	95
CINCH	1 pt/a A	802	0	0	95
ROUNDUP POWERMAX	22 fl oz/a B				100
D1691	8 fl oz/a B				
	Mean =		8	13	96
10 CANOPY BLEND @ 4.5 OZ/A		205	0	0	90
CLASSIC	0.37 oz ai/a A	301	0	0	85
SENCOR	2.25 oz ai/a A	605	0	0	95
CINCH	1 pt/a A	702	0	0	97
ROUNDUP POWERMAX	22 fl oz/a B				100
CINCH	1 pt/a B				
D1691	8 fl oz/a B				
	Mean =		0	0	92

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	SETFA
Pest Name		Giant foxtail	Giant ragweed	Giant foxtail
Part Rated		PLOT P	PLOT P	PLOT P
Rating Date		Jul-5-2016	Jul-19-2016	Jul-19-2016
Rating Type		CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		48 28	62 42	62 42
Trt-Eval Interval		28 DA-B	42 DA-B	42 DA-B
Days After Emergence		41 DE-1	55 DE-1	55 DE-1
ARM Action Codes		P	P	P
Number of Decimals		0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	6	7
1 Untreated Check		101	0	0
		402	0	0
		603	0	0
		805	0	0
		Mean =	0	0
2 TRIVENCE @ 8 OZ/A		102	100	85
CLASSIC	1.28 oz/a A	403	95	99
SENCOR 75DF	4.75 oz/a A	602	100	97
VALOR	2 oz/a A	803	99	99
ROUNDUP POWERMAX	22 fl oz/a B			
D1691	8 fl oz/a B			
		Mean =	99	95
3 TRIVENCE @ 8 OZ/A		103	100	90
CLASSIC	1.28 oz/a A	404	100	90
SENCOR 75DF	4.75 oz/a A	601	100	95
VALOR	2 oz/a A	705	100	99
ROUNDUP POWERMAX	22 fl oz/a B			
CINCH	1 pt/a B			
D1691	8 fl oz/a B			
		Mean =	100	94
4 ENVIVE @ 3.5 OZ/A		104	95	99
VALOR	1.02 oz ai/a A	405	100	90
CLASSIC	0.32 oz ai/a A	502	99	97
HARMONY SG	0.10 oz ai/a A	703	100	95
ROUNDUP POWERMAX	22 fl oz/a B			
D1691	8 fl oz/a B			
		Mean =	99	95
5 ENVIVE @ 3.5 OZ/A		105	100	100
VALOR	1.02 oz ai/a A	401	100	99
CLASSIC	0.32 oz ai/a A	504	95	90
HARMONY SG	0.10 oz ai/a A	704	95	99
ROUNDUP POWERMAX	22 fl oz/a B			
CINCH	1 pt/a B			
D1691	8 fl oz/a B			
		Mean =	98	97
6 ENVIVE @ 3.5 OZ/A		201	100	65
VALOR	1.02 oz ai/a A	303	100	60
CLASSIC	0.32 oz ai/a A	604	100	50
HARMONY SG	0.10 oz ai/a A	804	100	45
ROUNDUP POWERMAX	22 fl oz/a B			
PREFIX	2 pt/a B			
		Mean =	100	55
7 CANOPY BLEND @ 7.5 OZ/A		202	100	95
CLASSIC	0.62 oz ai/a A	304	100	100
SENCOR	3.75 oz ai/a A	503	100	97
CINCH	1 pt/a A	701	100	95
ROUNDUP POWERMAX	22 fl oz/a B			
D1691	8 fl oz/a B			
		Mean =	100	97

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Pest Type	W Weed SETFA		W Weed AMBTR		W Weed SETFA	
Pest Code	Giant foxtail		Giant ragweed		Giant foxtail	
Pest Name	PLOT P		PLOT P		PLOT P	
Part Rated	Jul-5-2016		Jul-19-2016		Jul-19-2016	
Rating Date	CONTRO		CONTRO		CONTRO	
Rating Type	%		%		%	
Rating Unit	1		1		1	
Number of Subsamples	48 28		62 42		62 42	
Days After First/Last Applic.	28 DA-B		42 DA-B		42 DA-B	
Trt-Eval Interval	41 DE-1		55 DE-1		55 DE-1	
Days After Emergence	P		P		P	
ARM Action Codes	0		0		0	
Number of Decimals						
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	6	7	8	
8 CANOPY BLEND @ 7.5 OZ/A		203	100	98	100	
CLASSIC	0.62 oz ai/a A	302	100	95	100	
SENCOR	3.75 oz ai/a A	505	100	99	100	
CINCH	1 pt/a A	801	100	99	100	
ROUNDUP POWERMAX	22 fl oz/a B					
CINCH	1 pt/a B					
D1691	8 fl oz/a B					
	Mean =		100	98	100	
9 CANOPY BLEND @ 4.5 OZ/A		204	100	98	100	
CLASSIC	0.37 oz ai/a A	305	95	95	95	
SENCOR	2.25 oz ai/a A	501	100	98	100	
CINCH	1 pt/a A	802	100	99	100	
ROUNDUP POWERMAX	22 fl oz/a B					
D1691	8 fl oz/a B					
	Mean =		99	98	99	
10 CANOPY BLEND @ 4.5 OZ/A		205	100	98	100	
CLASSIC	0.37 oz ai/a A	301	100	97	100	
SENCOR	2.25 oz ai/a A	605	100	97	100	
CINCH	1 pt/a A	702	100	95	100	
ROUNDUP POWERMAX	22 fl oz/a B					
CINCH	1 pt/a B					
D1691	8 fl oz/a B					
	Mean =		100	97	100	





# Purdue Weed Science

## Two-Pass Conventional Till Programs for Xtend Soybean

Trial ID: 16S-TPAC-SOY-19      Location: TPAC      Trial Year: 2016  
 Protocol ID: 16S-TPAC-SOY-19      Investigator: Dr. Bill Johnson  
 Project ID: USA-16-133      Study Director: Joe Ikley  
 Sponsor Contact: Dupont - Kelly Barnett

Pest Type Pest Code Pest Name	W Weed AMBTR	W Weed SETFA	W Weed AMBTR	W Weed SETFA	W Weed AMBTR	W Weed SETFA		
	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-7-2016	Jun-7-2016	Jun-21-2016	Jun-21-2016	Jul-5-2016	Jul-5-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	20 20	20 20	34 14	34 14	48 28	48 28		
Trt-Eval Interval	0 DA-B	0 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B		
Days After Emergence	13 DE-1	13 DE-1	27 DE-1	27 DE-1	41 DE-1	41 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	1	2	3	4	5	6
7 CANOPY BLEND @ 7.5 OZ/A CLASSIC SENCOR CINCH ROUNDUP POWERMAX D1691	0.62 oz ai/a A 3.75 oz ai/a A 1 pt/a A 22 fl oz/a B 8 fl oz/a B	A A A B B	0 -	25 -	96 a	100 a	97 a	100 a
8 CANOPY BLEND @ 7.5 OZ/A CLASSIC SENCOR CINCH ROUNDUP POWERMAX CINCH D1691	0.62 oz ai/a A 3.75 oz ai/a A 1 pt/a A 22 fl oz/a B 1 pt/a B 8 fl oz/a B	A A A B B B	0 -	13 -	93 a	100 a	95 a	100 a
9 CANOPY BLEND @ 4.5 OZ/A CLASSIC SENCOR CINCH ROUNDUP POWERMAX D1691	0.37 oz ai/a A 2.25 oz ai/a A 1 pt/a A 22 fl oz/a B 8 fl oz/a B	A A A B B	8 -	13 -	96 a	99 a	99 a	99 a
10 CANOPY BLEND @ 4.5 OZ/A CLASSIC SENCOR CINCH ROUNDUP POWERMAX CINCH D1691	0.37 oz ai/a A 2.25 oz ai/a A 1 pt/a A 22 fl oz/a B 1 pt/a B 8 fl oz/a B	A A A B B B	0 -	0 -	92 a	100 a	97 a	100 a
LSD P=.05	8.4	25.4	10.1	1.9	7.6	2.4		
Standard Deviation	5.8	17.5	7.0	1.3	5.2	1.7		
CV	463.8	212.62	8.64	1.49	6.21	1.88		
Bartlett's X2	0.472	1.181	11.901	0.009	29.009	0.151		
P(Bartlett's X2)	0.492	0.947	0.156	0.995	0.001*	0.985		
Skewness	4.5726*	1.8617*	-2.3011*	-2.762*	-2.3618*	-2.7565*		
Kurtosis	20.7236*	1.629*	4.1791*	5.9447*	4.2628*	5.9256*		
Replicate F	0.669	2.565	1.076	1.155	1.131	0.174		
Replicate Prob(F)	0.5782	0.0755	0.3759	0.3449	0.3542	0.9130		
Treatment F	0.868	0.904	70.642	2217.087	139.501	1395.911		
Treatment Prob(F)	0.5643	0.5359	0.0001	0.0001	0.0001	0.0001		

## Purdue Weed Science

### Two-Pass Conventional Till Programs for Xtend Soybean

Trial ID: 16S-TPAC-SOY-19  
 Protocol ID: 16S-TPAC-SOY-19  
 Project ID: USA-16-133

Location: TPAC      Trial Year: 2016  
 Investigator: Dr. Bill Johnson  
 Study Director: Joe Ikley  
 Sponsor Contact: Dupont - Kelly Barnett

			W Weed AMBTR	W Weed SETFA
Pest Type			Giant ragweed	Giant foxtail
Pest Code			PLOT P	PLOT P
Pest Name			Jul-19-2016	Jul-19-2016
Part Rated			CONTRO	CONTRO
Rating Date			%	%
Rating Type			1	1
Rating Unit			62 42	62 42
Number of Subsamples			42 DA-B	42 DA-B
Days After First/Last Applic.			55 DE-1	55 DE-1
Trt-Eval Interval			P	P
Days After Emergence			0	0
ARM Action Codes				
Number of Decimals				
Trt No.	Treatment Name	Rate Unit	Appl Code	
1	Untreated Check			0 c      0 c
2	TRIVENCE @ 8 OZ/A			95 a      96 ab
	CLASSIC	1.28 oz/a	A	
	SENCOR 75DF	4.75 oz/a	A	
	VALOR	2 oz/a	A	
	ROUNDUP POWERMAX	22 fl oz/a	B	
	D1691	8 fl oz/a	B	
3	TRIVENCE @ 8 OZ/A			94 a      99 ab
	CLASSIC	1.28 oz/a	A	
	SENCOR 75DF	4.75 oz/a	A	
	VALOR	2 oz/a	A	
	ROUNDUP POWERMAX	22 fl oz/a	B	
	CINCH	1 pt/a	B	
	D1691	8 fl oz/a	B	
4	ENVIVE @ 3.5 OZ/A			95 a      95 b
	VALOR	1.02 oz ai/a	A	
	CLASSIC	0.32 oz ai/a	A	
	HARMONY SG	0.10 oz ai/a	A	
	ROUNDUP POWERMAX	22 fl oz/a	B	
	D1691	8 fl oz/a	B	
5	ENVIVE @ 3.5 OZ/A			97 a      99 ab
	VALOR	1.02 oz ai/a	A	
	CLASSIC	0.32 oz ai/a	A	
	HARMONY SG	0.10 oz ai/a	A	
	ROUNDUP POWERMAX	22 fl oz/a	B	
	CINCH	1 pt/a	B	
	D1691	8 fl oz/a	B	
6	ENVIVE @ 3.5 OZ/A			55 b      99 ab
	VALOR	1.02 oz ai/a	A	
	CLASSIC	0.32 oz ai/a	A	
	HARMONY SG	0.10 oz ai/a	A	
	ROUNDUP POWERMAX	22 fl oz/a	B	
	PREFIX	2 pt/a	B	

## Purdue Weed Science

### Two-Pass Conventional Till Programs for Xtend Soybean

Trial ID: 16S-TPAC-SOY-19	Location: TPAC	Trial Year: 2016
Protocol ID: 16S-TPAC-SOY-19	Investigator: Dr. Bill Johnson	
Project ID: USA-16-133	Study Director: Joe Ikley	
	Sponsor Contact: Dupont - Kelly Barnett	

	W Weed AMBTR	W Weed SETFA
Pest Type	Giant ragweed	Giant foxtail
Pest Code	PLOT P	PLOT P
Pest Name	Jul-19-2016	Jul-19-2016
Part Rated	CONTRO	CONTRO
Rating Date	%	%
Rating Type	1	1
Rating Unit	62 42	62 42
Number of Subsamples	42 DA-B	42 DA-B
Days After First/Last Applic.	55 DE-1	55 DE-1
Trt-Eval Interval	P	P
Days After Emergence	0	0
ARM Action Codes		
Number of Decimals		
<b>Trt Treatment</b>	<b>Rate</b>	<b>Appl</b>
<b>No. Name</b>	<b>Rate Unit</b>	<b>Code</b>
7 CANOPY BLEND @ 7.5 OZ/A		7
CLASSIC	0.62 oz ai/a A	
SENCOR	3.75 oz ai/a A	
CINCH	1 pt/a A	
ROUNDUP POWERMAX	22 fl oz/a B	
D1691	8 fl oz/a B	
8 CANOPY BLEND @ 7.5 OZ/A		8
CLASSIC	0.62 oz ai/a A	
SENCOR	3.75 oz ai/a A	
CINCH	1 pt/a A	
ROUNDUP POWERMAX	22 fl oz/a B	
CINCH	1 pt/a B	
D1691	8 fl oz/a B	
9 CANOPY BLEND @ 4.5 OZ/A		98 a
CLASSIC	0.37 oz ai/a A	
SENCOR	2.25 oz ai/a A	
CINCH	1 pt/a A	
ROUNDUP POWERMAX	22 fl oz/a B	
D1691	8 fl oz/a B	
10 CANOPY BLEND @ 4.5 OZ/A		99 ab
CLASSIC	0.37 oz ai/a A	
SENCOR	2.25 oz ai/a A	
CINCH	1 pt/a A	
ROUNDUP POWERMAX	22 fl oz/a B	
CINCH	1 pt/a B	
D1691	8 fl oz/a B	
LSD P=.05	6.8	2.6
Standard Deviation	4.7	1.8
CV	5.68	2.02
Bartlett's X2	17.216	0.0
P(Bartlett's X2)	0.028*	.
Skewness	-2.0845*	-2.7438*
Kurtosis	3.0952*	5.8827*
Replicate F	0.050	0.712
Replicate Prob(F)	0.9848	0.5532
Treatment F	184.071	1208.827
Treatment Prob(F)	0.0001	0.0001

## Purdue Weed Science

### Two-Pass Conventional Till Programs for Xtend Soybean

Trial ID: 16S-TPAC-SOY-19      Location: TPAC      Trial Year: 2016  
Protocol ID: 16S-TPAC-SOY-19      Investigator: Dr. Bill Johnson  
Project ID: USA-16-133      Study Director: Joe Ikley  
Sponsor Contact: Dupont - Kelly Barnett

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

Part Rated

PLOT = plot

P = Pest is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

ARM Action Codes

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