

## Purdue Weed Science

### POST Solstice Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-08      Location: TPAC      Trial Year: 2016  
 Protocol ID: 16S-TPAC-CORN-08      Investigator: Dr. Bill Johnson  
 Project ID:      Study Director: Joe Ikley  
    Sponsor Contact: FMC - Nick Hustedde

### 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  
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**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  
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**Postal Code:** 47907      **E-mail:** wgj@purdue.edu

**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:** ZEAMX      Zea mays      Corn  
**Variety:** DKC 62-08

**Planting Rate, Unit:** 32000 S/A      **Planting Date:** Apr-26-2016  
**Depth, Unit:** 1.75 IN      **Planting Method:** PLANTD planted  
**Row Spacing, Unit:** 30 IN      **Planting Equipment:** FPP Finger Pickup Planter  
**Soil Temperature, Unit:** 74 F      **Emergence Date:** May-10-2016  
**Soil Moisture:** SLIDRY slightly dry      **Harvested Width, Unit:** 5 FT  
**Harvested Length, Unit:** 25 FT  
**% Standard Moisture:** 15.5

### Pest Description

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

**Pest 2 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** common lambsquarters

**Pest 3 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:** 8      **Tillage Type:** CONTIL conventional-till  
**Replications:** 4      **Study Design:** RACOB� Randomized Complete Block (RCB)

**Field Prep./Maintenance:**  
 171 lbs of N applied as UAN on 4/19/16

### 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
Application Date:	May-23-2016
Appl. Start Time:	2:30 PM
Appl. Stop Time:	3:00 PM
Application Method:	SPRAY
Application Timing:	E POST
Application Placement:	BROADC
Applied By:	PD
Air Temperature, Unit:	75 F
% Relative Humidity:	25
Wind Velocity, Unit:	3 MPH
Wind Direction:	ESE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	75 F
Soil Moisture:	DRY
% Cloud Cover:	0

### Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	32
Stage Minimum, Percent:	31
Stage Maximum, Percent:	32
Height, Unit:	33.5 IN
Height Minimum, Maximum:	2 5

### Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	33G
Stage Minimum, Percent:	32G
Stage Maximum, Percent:	35G
Height, Unit:	5 IN
Height Minimum, Maximum:	4 6
Density, Unit:	120 YD2
Pest 2 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	31G
Stage Minimum, Percent:	31G
Stage Maximum, Percent:	32G
Height, Unit:	0.75 IN
Height Minimum, Maximum:	0.5 1
Density, Unit:	30 YD2
Pest 3 Code, Type, Scale:	SETFA W
Stage Majority, Percent:	13
Stage Minimum, Percent:	12
Stage Maximum, Percent:	14
Height, Unit:	0.75 IN
Height Minimum, Maximum:	0.5 1
Density, Unit:	75 YD2

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#### Application Equipment

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

#### Trial Comments

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 Rate Unit	Appl Code	Amt Product to Measure	Rep			
								1	2	3	4
1	Untreated Check							101	304	602	802
2	SOLSTICE	4 LB/GAL	SC		3.15 fl oz/a	A	2.953 ml/mx	102	404	503	804
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	A	30.0 ml/mx				
	PRIME OIL - COC	98.47 %	L		0.5 % v/v	A	8.999 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL	L		2.5 % v/v	A	45.0 ml/mx				
3	ARMEZON	2.8 LB/GAL	L		0.75 fl oz/a	A	0.7031 ml/mx	103	302	501	704
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	A	30.0 ml/mx				
	MISO ULTRA	100 %	L		1 % v/v	A	18.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL	L		2.5 % v/v	A	45.0 ml/mx				
4	SOLSTICE	4 LB/GAL	SC		3.15 fl oz/a	A	2.953 ml/mx	104	403	504	702
	AATREX	4 LB/GAL	L		1.5 qt/a	A	45.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	A	30.0 ml/mx				
	PRIME OIL - COC	98.47 %	L		0.5 % v/v	A	8.999 ml/mx				
5	SOLSTICE	4 LB/GAL	SC		2.5 fl oz/a	A	2.344 ml/mx	201	402	601	703
	ANTHEM MAXX	4.3 LB/GAL	SE		2 fl oz/a	A	1.875 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	A	30.0 ml/mx				
	PRIME OIL - COC	98.47 %	L		0.5 % v/v	A	8.999 ml/mx				
6	SOLSTICE	4 LB/GAL	SC		2.5 fl oz/a	A	2.344 ml/mx	202	301	603	801
	ANTHEM MAXX	4.3 LB/GAL	SE		2 fl oz/a	A	1.875 ml/mx				
	AATREX	4 LB/GAL	L		1.5 qt/a	A	45.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	A	30.0 ml/mx				
7	HALEX GT	4.389 LBAE/GAL	L		3.6 pt/a	A	54.0 ml/mx	203	401	502	701
	ACTIVATOR 90 - NIS	90 %	L		0.25 % v/v	A	4.5 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL	L		2.5 % v/v	A	45.0 ml/mx				
	Untreated Check										
8	Untreated Check							204	303	604	803

Sort Order: Replicate 1

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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)

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
13.242	ml	SOLSTICE	4	LB/GAL	SC	
187.500	ml	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
44.995	ml	PRIME OIL - COC	98.47	%	L	
337.463	ml	N-PAK - AMS	3.4	LBA/GAL	L	
0.879	ml	ARMEZON	2.8	LB/GAL	L	
22.498	ml	MSO ULTRA	100	%	L	
112.500	ml	AATREX	4	LB/GAL	L	
4.687	ml	ANTHEM MAXX	4.3	LB/GAL	SE	
67.500	ml	HALEX GT	4.389	LBAE/GAL	L	
5.624	ml	ACTIVATOR 90 - NIS	90	%	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 AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail
Pest Code						
Pest Name						
Crop Code	ZEAMX			ZEAMX		
Crop Name	Corn			Corn		
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P
Rating Date	May-31-2016	May-31-2016	May-31-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	8 8	8 8	8 8	14 14	14 14	14 14
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	27 DE-1	27 DE-1	27 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	5
1 Untreated Check	101 304 602 802 Mean =	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
2 SOLSTICE	3.15 fl oz/a A 102	0	85	95	0	85
ROUNDUP POWERMAX	32 fl oz/a A 404	0	75	100	0	80
PRIME OIL - COC	0.5 % v/v A 503	0	95	95	0	95
N-PAK - AMS	2.5 % v/v A 804	0	85	95	0	90
Mean =		0	85	96	0	88
3 ARMEZON	0.75 fl oz/a A 103	0	80	95	0	95
ROUNDUP POWERMAX	32 fl oz/a A 302	0	80	95	0	95
MSO ULTRA	1 % v/v A 501	0	70	95	0	100
N-PAK - AMS	2.5 % v/v A 704	0	80	100	0	95
Mean =		0	78	96	0	96
4 SOLSTICE	3.15 fl oz/a A 104	0	95	100	0	95
AATREX	1.5 qt/a A 403	0	95	100	0	97
ROUNDUP POWERMAX	32 fl oz/a A 504	0	100	95	0	95
PRIME OIL - COC	0.5 % v/v A 702	0	99	100	0	95
N-PAK - AMS	2.5 % v/v A	0			0	100
Mean =		0	97	99	0	96
5 SOLSTICE	2.5 fl oz/a A 201	0	90	95	0	85
ANTHEM MAXX	2 fl oz/a A 402	0	90	100	0	90
ROUNDUP POWERMAX	32 fl oz/a A 601	0	90	90	0	95
PRIME OIL - COC	0.5 % v/v A 703	0	95	100	0	99
N-PAK - AMS	2.5 % v/v A	0			0	100
Mean =		0	91	96	0	92
6 SOLSTICE	2.5 fl oz/a A 202	0	97	100	0	95
ANTHEM MAXX	2 fl oz/a A 301	0	97	100	0	95
AATREX	1.5 qt/a A 603	0	100	99	0	97
ROUNDUP POWERMAX	32 fl oz/a A 801	0	100	100	0	90
PRIME OIL - COC	0.5 % v/v A	0			0	100
N-PAK - AMS	2.5 % v/v A	0			0	
Mean =		0	99	100	0	94
7 HALEX GT	3.6 pt/a A 203	0	90	100	0	90
ACTIVATOR 90 - NIS	0.25 % v/v A 401	0	70	90	0	95
N-PAK - AMS	2.5 % v/v A 502	0	85	95	0	95
	701	0	75	90	0	80
Mean =		0	80	94	0	90
8 Untreated Check	204 303 604 803 Mean =	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0

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Pest Type		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail	W Weed AMBTR Giant ragweed			
Pest Code							
Pest Name							
Crop Code	ZEAMX				ZEAMX	ZEAMX	
Crop Name	Corn				Corn	Corn	
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C	
Rating Date	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jul-19-2016	Oct-8-2016	Oct-8-2016	
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	YIELD	MOICON	
Rating Unit	%	%	%	%	lb/plot	%	
Number of Subsamples	1	1	1	1	1	1	
Days After First/Last Applic.	29 29	29 29	29 29	57 57	138 138	138 138	
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	57 DA-A	164 DA-A	164 DA-A	
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	70 DE-1	151 DE-1	151 DE-1	
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0	2	1	
Trt Treatment	Rate Appl						
No. Name	Rate Unit Code Plot	7	8	9	10	11	
1 Untreated Check	101 304 602 802 Mean =	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0 0.0
2 SOLSTICE	3.15 fl oz/a A 102	0	60	70	30	14.87	18.0
ROUNDUP POWERMAX	32 fl oz/a A 404	0	70	80	60	27.41	19.7
PRIME OIL - COC	0.5 % v/v A 503	0	90	40	80	38.55	17.5
N-PAK - AMS	2.5 % v/v A 804	0	70	60	60	22.94	17.1
Mean =		0	73	63	58	25.94	18.1
3 ARMEZON	0.75 fl oz/a A 103	0	60	75	10	9.17	18.2
ROUNDUP POWERMAX	32 fl oz/a A 302	0	75	85	10	24.56	18.1
MSO ULTRA	1 % v/v A 501	0	95	50	70	34.78	17.9
N-PAK - AMS	2.5 % v/v A 704	0	80	85	40	27.35	16.9
Mean =		0	78	74	33	23.96	17.8
4 SOLSTICE	3.15 fl oz/a A 104	0	95	85	60	20.14	18.8
AATREX	1.5 qt/a A 403	0	90	80	80	38.33	18.4
ROUNDUP POWERMAX	32 fl oz/a A 504	0	95	65	90	36.02	18.3
PRIME OIL - COC	0.5 % v/v A 702	0	90	90	80	35.96	17.8
N-PAK - AMS	2.5 % v/v A						
Mean =		0	93	80	78	32.61	18.3
5 SOLSTICE	2.5 fl oz/a A 201	0	75	85	65	19.50	16.3
ANTHEM MAXX	2 fl oz/a A 402	0	80	90	55	35.10	18.1
ROUNDUP POWERMAX	32 fl oz/a A 601	0	70	50	25	28.32	17.5
PRIME OIL - COC	0.5 % v/v A 703	0	95	95	90	38.65	17.4
N-PAK - AMS	2.5 % v/v A						
Mean =		0	80	80	59	30.40	17.3
6 SOLSTICE	2.5 fl oz/a A 202	0	90	85	80	33.70	18.7
ANTHEM MAXX	2 fl oz/a A 301	0	90	90	75	35.43	19.1
AATREX	1.5 qt/a A 603	0	95	95	90	35.86	18.3
ROUNDUP POWERMAX	32 fl oz/a A 801	0	80	70	55	30.85	18.4
PRIME OIL - COC	0.5 % v/v A						
N-PAK - AMS	2.5 % v/v A						
Mean =		0	89	85	75	33.96	18.6
7 HALEX GT	3.6 pt/a A 203	0	85	85	60	27.14	18.4
ACTIVATOR 90 - NIS	0.25 % v/v A 401	0	85	80	65	34.73	19.0
N-PAK - AMS	2.5 % v/v A 502	0	95	50	80	38.65	17.7
	701	0	85	65	60	33.44	18.5
Mean =		0	88	70	66	33.49	18.4
8 Untreated Check	204 303 604 803 Mean =	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0 0.0

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Pest Type			
Pest Code			
Pest Name			
Crop Code		ZEAMX	
Crop Name		Corn	
Part Rated		PLOT C	
Rating Date		Oct-8-2016	
Rating Type		YIELD	
Rating Unit		BU	
Number of Subsamples		1	
Days After First/Last Applic.		138 138	
Trt-Eval Interval		164 DA-A	
Days After Emergence		151 DE-1	
ARM Action Codes		TY1	
Number of Decimals		1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	13
1 Untreated Check		101	0.0
		304	0.0
		602	0.0
		802	0.0
		Mean =	0.0
2 SOLSTICE	3.15 fl oz/a A	102	89.8
ROUNDUP POWERMAX	32 fl oz/a A	404	162.0
PRIME OIL - COC	0.5 % v/v A	503	234.1
N-PAK - AMS	2.5 % v/v A	804	140.1
		Mean =	156.5
3 ARMEZON	0.75 fl oz/a A	103	55.2
ROUNDUP POWERMAX	32 fl oz/a A	302	148.2
MSO ULTRA	1 % v/v A	501	210.2
N-PAK - AMS	2.5 % v/v A	704	167.4
		Mean =	145.3
4 SOLSTICE	3.15 fl oz/a A	104	120.5
AATREX	1.5 qt/a A	403	230.4
ROUNDUP POWERMAX	32 fl oz/a A	504	216.7
PRIME OIL - COC	0.5 % v/v A	702	217.8
N-PAK - AMS	2.5 % v/v A		
		Mean =	196.3
5 SOLSTICE	2.5 fl oz/a A	201	120.2
ANTHEM MAXX	2 fl oz/a A	402	211.7
ROUNDUP POWERMAX	32 fl oz/a A	601	172.1
PRIME OIL - COC	0.5 % v/v A	703	235.2
N-PAK - AMS	2.5 % v/v A		
		Mean =	184.8
6 SOLSTICE	2.5 fl oz/a A	202	201.8
ANTHEM MAXX	2 fl oz/a A	301	211.1
AATREX	1.5 qt/a A	603	215.7
ROUNDUP POWERMAX	32 fl oz/a A	801	185.4
PRIME OIL - COC	0.5 % v/v A		
N-PAK - AMS	2.5 % v/v A		
		Mean =	203.5
7 HALEX GT	3.6 pt/a A	203	163.0
ACTIVATOR 90 - NIS	0.25 % v/v A	401	207.2
N-PAK - AMS	2.5 % v/v A	502	234.2
		701	200.7
		Mean =	201.3
8 Untreated Check		204	0.0
		303	0.0
		604	0.0
		803	0.0
		Mean =	0.0

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**Pest Type**  
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop  
**Pest Code**  
 AMBTR, Ambrosia trifida, = US  
 SETFA, Setaria faberi, = US  
**Crop Code**  
 ZEAMX, BCOR, Zea mays, = US  
**Part Rated**  
 PLOT = plot  
 C = Crop is Part Rated  
 P = Pest is Part Rated  
**Rating Type**  
 PHYGEN = phytotoxicity - general / injury  
 CONTRO = control / burndown or knockdown  
 YIELD = yield  
 MOICON = moisture content  
**Rating Unit**  
 % = percent  
 lb/plot = pounds per plot  
 BU = bushel  
**ARM Action Codes**  
 P = Rating scale of 0 to 100 (e.g. % control or injury)  
 TY1 = 6.222857\*[11]\*(100-[12])/84.5

Pest Type	Pest Code	W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		
Crop Code	ZEAMX			ZEAMX				
Crop Name	Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	May-31-2016	May-31-2016	May-31-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	8 8	8 8	8 8	14 14	14 14	14 14		
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	14 DA-A	14 DA-A	14 DA-A		
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	27 DE-1	27 DE-1	27 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	Appl Code	1	2	3	4	5	6
1 Untreated Check			0 -	0 d	0 b	0 -	0 b	0 b
2 SOLSTICE	3.15 fl oz/a A		0 -	85 bc	96 a	0 -	88 a	95 a
ROUNDUP POWERMAX	32 fl oz/a A							
PRIME OIL - COC	0.5 % v/v A							
N-PAK - AMS	2.5 % v/v A							
3 ARMEZON	0.75 fl oz/a A		0 -	78 c	96 a	0 -	96 a	96 a
ROUNDUP POWERMAX	32 fl oz/a A							
MSO ULTRA	1 % v/v A							
N-PAK - AMS	2.5 % v/v A							
4 SOLSTICE	3.15 fl oz/a A		0 -	97 a	99 a	0 -	96 a	96 a
AATREX	1.5 qt/a A							
ROUNDUP POWERMAX	32 fl oz/a A							
PRIME OIL - COC	0.5 % v/v A							
N-PAK - AMS	2.5 % v/v A							
5 SOLSTICE	2.5 fl oz/a A		0 -	91 ab	96 a	0 -	92 a	91 a
ANTHEM MAXX	2 fl oz/a A							
ROUNDUP POWERMAX	32 fl oz/a A							
PRIME OIL - COC	0.5 % v/v A							
N-PAK - AMS	2.5 % v/v A							
6 SOLSTICE	2.5 fl oz/a A		0 -	99 a	100 a	0 -	94 a	98 a
ANTHEM MAXX	2 fl oz/a A							
AATREX	1.5 qt/a A							
ROUNDUP POWERMAX	32 fl oz/a A							
PRIME OIL - COC	0.5 % v/v A							
N-PAK - AMS	2.5 % v/v A							

# Purdue Weed Science

## POST Solstice Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-08      Location: TPAC      Trial Year: 2016  
 Protocol ID: 16S-TPAC-CORN-08      Investigator: Dr. Bill Johnson  
 Project ID:      Study Director: Joe Ikley  
 Sponsor Contact: FMC - Nick Hustedde

Pest Type		W Weed AMBTR	W Weed SETFA		W Weed AMBTR	W Weed SETFA		
Pest Code		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail		
Pest Name								
Crop Code	ZEAMX			ZEAMX				
Crop Name	Corn			Corn				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	May-31-2016	May-31-2016	May-31-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	8 8	8 8	8 8	14 14	14 14	14 14		
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	14 DA-A	14 DA-A	14 DA-A		
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	27 DE-1	27 DE-1	27 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 Unit	Appl Code	1	2	3	4	5	6
7 HALEX GT	3.6 pt/a	A	0 -	80 c	94 a	0 -	90 a	93 a
ACTIVATOR 90 - NIS	0.25 % v/v	A						
N-PAK - AMS	2.5 % v/v	A						
8 Untreated Check			0 -	0 d	0 b	0 -	0 b	0 b
LSD P=.05	.0		7.1	4.2	.0	6.1	6.1	
Standard Deviation	0.0		4.8	2.8	0.0	4.1	4.2	
CV	0.0		7.27	3.92	0.0	5.93	5.88	
Bartlett's X2	0.0		11.272	10.838	0.0	10.625	6.712	
P(Bartlett's X2)	.		0.046*	0.055	.	0.059	0.243	
Skewness	.		-1.0618*	-1.1943*	.	-1.1682*	-1.1709*	
Kurtosis	.		-0.7137	-0.5866	.	-0.6142	-0.6107	
Replicate F	0.000		1.245	0.985	0.000	1.541	3.116	
Replicate Prob(F)	1.0000		0.3184	0.4187	1.0000	0.2334	0.0480	
Treatment F	0.000		297.522	991.513	0.000	435.837	440.996	
Treatment Prob(F)	1.0000		0.0001	0.0001	1.0000	0.0001	0.0001	





## Purdue Weed Science

### POST Solstice Programs in Conventional Till Corn

Trial ID: 16S-TPAC-CORN-08      Location: TPAC      Trial Year: 2016  
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 Project ID:      Study Director: Joe Ikley  
                                  Sponsor Contact: FMC - Nick Hustedde

#### Pest Type

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

#### Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

#### Crop Code

ZEAMX, BCOR, Zea mays, = US

#### Part Rated

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

#### Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

MOICON = moisture content

#### Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

#### ARM Action Codes

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

TY1 =  $6.222857 * [11] * (100 - [12]) / 84.5$