

# Purdue Weed Science

## Harness Max POST only Application Timing

Trial ID: 18S-TPAC-CORN-02      Location: TPAC      Trial Year: 2018  
 Protocol ID: 18S-TPAC-CORN-02      Investigator: Dr. Bill Johnson  
 Project ID: 2018-01-24-11      Study Director: Dustin Johnson  
 Sponsor Contact: D. Childs - Monsanto

### General Trial Information

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

### Trial Location

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

**Latitude of LL Corner °:** 40.29174 N  
**Longitude of LL Corner °:** 86.9067 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:** ZEAMX      Zea mays      Corn  
**Variety:** DKC62-52RIB  
**Description:** RR/LL Stacked

**Planting Date:** Apr-27-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** PP      plot planter  
**Planting Rate, Unit:** 32000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN  
**Soil Temperature, Unit:** 61 F  
**Soil Moisture:** DRY      dry  
**Emergence Date:** May-7-2018

### 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

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

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT2      **Treatments:** 15  
**Replications:** 4  
**Site Type:** FIELD      field  
**Experimental Unit:** 1      PLOT      plot  
**Tillage Type:** CONTIL      conventional-till  
**Study Design:** RACOB      Randomized Complete Block (RCB)

### Field Prep./Maintenance:

4/26/18-Farm Applied 180 lbs of N applied as UAN 28-0-0.

# Purdue Weed Science

## Soil Description

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

## Application Description

	A
<b>Application Date:</b>	May-22-2018
<b>Appl. Start Time:</b>	12:15 PM
<b>Appl. Stop Time:</b>	1:00 PM
<b>Application Method:</b>	SPRAY
<b>Application Timing:</b>	POSPOS
<b>Application Placement:</b>	BROADC
<b>Applied By:</b>	D. JOHNSON
<b>Air Temperature, Unit:</b>	73 F
<b>% Relative Humidity:</b>	82
<b>Wind Velocity, Unit:</b>	3 MPH
<b>Wind Direction:</b>	WNW
<b>Dew Presence (Y/N):</b>	N no
<b>Soil Temperature, Unit:</b>	68 F
<b>Soil Moisture:</b>	SLIWET
<b>% Cloud Cover:</b>	80

## Crop Stage At Each Application

	A
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR
<b>Stage Scale Used:</b>	BBCH
<b>Stage Majority, Percent:</b>	14
<b>Stage Minimum, Percent:</b>	13
<b>Stage Maximum, Percent:</b>	14
<b>Height, Unit:</b>	8 IN
<b>Height Minimum, Maximum:</b>	4.5 9.5

## Purdue Weed Science

### Pest Stage At Each Application

	A
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W
<b>Stage Majority, Percent:</b>	14
<b>Stage Minimum, Percent:</b>	10
<b>Stage Maximum, Percent:</b>	19
<b>Height, Unit:</b>	3 IN
<b>Height Minimum, Maximum:</b>	0.25 12
<b>Density, Unit:</b>	8 FT2
<b>Pest 2 Code, Type, Scale:</b>	SETFA W
<b>Stage Majority, Percent:</b>	13
<b>Stage Minimum, Percent:</b>	10
<b>Stage Maximum, Percent:</b>	16
<b>Height, Unit:</b>	3 IN
<b>Height Minimum, Maximum:</b>	0.25 6
<b>Density, Unit:</b>	3 FT2
<b>Pest 3 Code, Type, Scale:</b>	CHEAL W
<b>Stage Majority, Percent:</b>	14
<b>Stage Minimum, Percent:</b>	10
<b>Stage Maximum, Percent:</b>	16
<b>Height, Unit:</b>	0.5 IN
<b>Height Minimum, Maximum:</b>	0.25 1.5
<b>Density, Unit:</b>	2 FT2

### Application Equipment

	A
<b>Appl. Equipment:</b>	CO2 BACKPACK
<b>Equipment Type:</b>	BACSPR
<b>Operation Pressure, Unit:</b>	24 PSI
<b>Nozzle Type:</b>	FLAFXR
<b>Nozzle Size:</b>	XR11002
<b>Nozzle Spacing, Unit:</b>	20 IN
<b>Nozzles/Row:</b>	4
<b>Boom Length, Unit:</b>	6.67 FT
<b>Boom Height, Unit:</b>	17 IN
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	WATER
<b>Spray Volume, Unit:</b>	15 GAL/AC
<b>Mix Size, Unit:</b>	1119 mL
<b>Propellant:</b>	COMCO2

Date	By	Notes
Jun-11-2018	D. JOHNSON	Evening storm brought hail and damage to crop occurred.

Trial Comments

## Purdue Weed Science

Harness Max POST only Application Timing			
Trial ID: 18S-TPAC-CORN-02	Location: TPAC	Trial Year: 2018	
Protocol ID: 18S-TPAC-CORN-02	Investigator: Dr. Bill Johnson		
Project ID: 2018-01-24-11	Study Director: Dustin Johnson		
Sponsor Contact: D. Childs - Monsanto			

Reps: 4      Plots: 6.67 by 30 feet  
 Spray vol: 15 GAL/AC      Mix Size: 1119 mL (total for 4 plots; minimum=1043.3 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Code	Appl Description	Amt Product to Measure	Rep			
									1	2	3	4
1	UNTREATED CHECK								101	307	504	706
2	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		27 fl oz/a	A	2-4" WEEDS OR 11" CORN	15.74 mL/mx	102	401	508	708
	DIFLEXX	4 LB/GAL	SC		16 fl oz/a	A	2-4" WEEDS OR 11" CORN	9.325 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
3	HARNESS MAX	3.85 LBA/GAL	SE		40 fl oz/a	A	2-4" WEEDS OR 11" CORN	23.31 mL/mx	103	404	602	703
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		27 fl oz/a	A	2-4" WEEDS OR 11" CORN	15.74 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
4	HALEX GT	4.389 LBAE/GAL	L		1.8 qt/a	A	2-4" WEEDS OR 11" CORN	33.57 mL/mx	104	403	601	608
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v	A	2-4" WEEDS OR 11" CORN	2.797 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
5	RESICORE	3.29 LB/GAL	L		1.25 qt/a	A	2-4" WEEDS OR 11" CORN	23.31 mL/mx	105	405	507	707
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		27 fl oz/a	A	2-4" WEEDS OR 11" CORN	15.74 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
6	HARNESS XTRA	6 LB/GAL	SE		2 qt/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	106	304	503	802
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		27 fl oz/a	A	2-4" WEEDS OR 11" CORN	15.74 mL/mx				
	DIFLEXX	4 LB/GAL	SC		16 fl oz/a	A	2-4" WEEDS OR 11" CORN	9.325 mL/mx				
7	HARNESS MAX	3.85 LBA/GAL	SE		64 fl oz/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	107	402	501	702
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
8	HARNESS MAX	3.85 LBA/GAL	SE		64 fl oz/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	108	308	407	607
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v	A	2-4" WEEDS OR 11" CORN	2.797 mL/mx				
9	HALEX GT	4.389 LBAE/GAL	SL		2 qt/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	201	302	605	803
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v	A	2-4" WEEDS OR 11" CORN	2.797 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
10	RESICORE	3.29 LB/GAL	L		2.25 qt/a	A	2-4" WEEDS OR 11" CORN	41.96 mL/mx	202	208	502	705
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				
11	HARNESS MAX	3.85 LBA/GAL	SE		64 fl oz/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	203	306	505	804
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	AATREX	4 LB/GAL	L		1 qt/a	A	2-4" WEEDS OR 11" CORN	18.65 mL/mx				
12	HARNESS MAX	3.85 LBA/GAL	SE		64 fl oz/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	204	406	603	704
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	AATREX	4 LB/GAL	L		1 qt/a	A	2-4" WEEDS OR 11" CORN	18.65 mL/mx				
13	HALEX GT	4.389 LBAE/GAL	L		2 qt/a	A	2-4" WEEDS OR 11" CORN	37.3 mL/mx	205	301	408	606
	AATREX	4 LB/GAL	L		1 qt/a	A	2-4" WEEDS OR 11" CORN	18.65 mL/mx				
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v	A	2-4" WEEDS OR 11" CORN	2.797 mL/mx				
14	RESICORE	3.29 LB/GAL	L		2.25 qt/a	A	2-4" WEEDS OR 11" CORN	41.96 mL/mx	206	303	604	701
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	AATREX	4 LB/GAL	L		1 qt/a	A	2-4" WEEDS OR 11" CORN	18.65 mL/mx				
15	CAPRENO	33.9 %	SL		3 fl oz/a	A	2-4" WEEDS OR 11" CORN	1.748 mL/mx	207	305	506	801
	DESTINY HC	100 %	SL		0.5 % v/v	A	2-4" WEEDS OR 11" CORN	5.594 mL/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		30 fl oz/a	A	2-4" WEEDS OR 11" CORN	17.48 mL/mx				
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v	A	2-4" WEEDS OR 11" CORN	27.97 mL/mx				

Sort Order: Treatment

# Purdue Weed Science

<b>Harness Max POST only Application Timing</b>	
Trial ID: 18S-TPAC-CORN-02	Location: TPAC Trial Year: 2018
Protocol ID: 18S-TPAC-CORN-02	Investigator: Dr. Bill Johnson
Project ID: 2018-01-24-11	Study Director: Dustin Johnson
Sponsor Contact: D. Childs - Monsanto	

Pest Type Pest Code Pest Name					W Weed AMBTR Giant ragweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	May-25-2018	May-25-2018	May-29-2018	May-29-2018	May-29-2018	Jun-5-2018		
Rating Type	PHYCHL	PHYNEC	PHYCHL	PHYNEC	CONTROL	PHYCHL		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A1	A1	A2	A2	A2	A3		
Days After First/Last Applic.	3 3	3 3	7 7	7 7	7 7	14 14		
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A		
Days After Emergence	18 DE-1	18 DE-1	22 DE-1	22 DE-1	22 DE-1	29 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
1 UNTREATED CHECK			0	0	0	0	0	0
2 ROUNDUP POWERMAX DIFLEXX N-PAK AMS	27 fl oz/a A 16 fl oz/a A 2.5 % v/v A		0 f	1 f	0 e	0 h	92 abc	0 d
3 HARNESS MAX ROUNDUP POWERMAX N-PAK AMS	40 fl oz/a A 27 fl oz/a A 2.5 % v/v A		0 f	5 def	0 e	4 e-h	88 cd	0 d
4 HALEX GT ACTIVATOR 90 NIS N-PAK AMS	1.8 qt/a A 0.25 % v/v A 2.5 % v/v A		0 f	3 ef	0 e	1 gh	83 d	2 b
5 RESICORE ROUNDUP POWERMAX N-PAK AMS	1.25 qt/a A 27 fl oz/a A 2.5 % v/v A		0 f	2 ef	0 e	1 h	92 abc	0 d
6 HARNESS XTRA ROUNDUP POWERMAX DIFLEXX N-PAK AMS	2 qt/a A 27 fl oz/a A 16 fl oz/a A 2.5 % v/v A		4 cde	12 c	4 b	13 c	96 ab	2 bc
7 HARNESS MAX ROUNDUP POWERMAX N-PAK AMS	64 fl oz/a A 30 fl oz/a A 2.5 % v/v A		3 ef	12 c	2 bcd	10 cd	95 ab	1 cd
8 HARNESS MAX ROUNDUP POWERMAX ACTIVATOR 90 NIS N-PAK AMS	64 fl oz/a A 30 fl oz/a A 0.25 % v/v A 2.5 % v/v A		3 ef	13 c	1 de	12 c	90 bc	1 cd
9 HALEX GT ACTIVATOR 90 NIS N-PAK AMS	2 qt/a A 0.25 % v/v A 2.5 % v/v A		5 cde	2 ef	2 bcd	2 fgh	93 abc	1 bcd
10 RESICORE ROUNDUP POWERMAX N-PAK AMS	2.25 qt/a A 30 fl oz/a A 2.5 % v/v A		3 de	8 d	1 cde	6 ef	96 ab	2 bc
11 HARNESS MAX ROUNDUP POWERMAX AATREX N-PAK AMS	64 fl oz/a A 30 fl oz/a A 1 qt/a A 2.5 % v/v A		9 ab	20 b	10 a	22 b	98 a	6 a
12 HARNESS MAX ROUNDUP POWERMAX AATREX ACTIVATOR 90 NIS N-PAK AMS	64 fl oz/a A 30 fl oz/a A 1 qt/a A 0.25 % v/v A 2.5 % v/v A		10 a	26 a	10 a	26 a	98 a	7 a

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.  
 Untreated treatment(s) 1 excluded from analysis.  
 Could not calculate LSD (% mean diff) for columns 9 because error mean square = 0.

# Purdue Weed Science

Pest Type	W Weed											
Pest Code	AMBTR											
Pest Name	Giant ragweed											
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn						
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -						
Rating Date	May-25-2018	May-25-2018	May-29-2018	May-29-2018	May-29-2018	Jun-5-2018						
Rating Type	PHYCHL	PHYNEC	PHYCHL	PHYNEC	CONTROL	PHYCHL						
Rating Unit	%	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1	1						
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON						
Rating Timing	A1	A1	A2	A2	A2	A3						
Days After First/Last Applic.	3 3	3 3	7 7	7 7	7 7	14 14						
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A						
Days After Emergence	18 DE-1	18 DE-1	22 DE-1	22 DE-1	22 DE-1	29 DE-1						
ARM Action Codes	P	P	P	P	P	P						
Number of Decimals	0	0	0	0	0	0						
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5	6			
		Rate Unit										
13	HALEX GT	2 qt/a A	A	7 bc	6 de	3 bc	5 efg	98 a	2 bc			
	AATREX	1 qt/a A	A									
	ACTIVATOR 90 NIS	0.25 % v/v A	A									
	N-PAK AMS	2.5 % v/v A	A									
14	RESICORE	2.25 qt/a A	A	3 ef	9 cd	2 cde	7 de	97 a	1 bcd			
	ROUNDUP POWERMAX	30 fl oz/a A	A									
	AATREX	1 qt/a A	A									
	N-PAK AMS	2.5 % v/v A	A									
15	CAPRENO	3 fl oz/a A	A	6 cd	3 ef	2 cde	1 h	93 abc	1 bcd			
	DESTINY HC	0.5 % v/v A	A									
	ROUNDUP POWERMAX	30 fl oz/a A	A									
	N-PAK AMS	2.5 % v/v A	A									
LSD P=.05		2.8		4.4		1.8		4.2		6.5		1.7
Standard Deviation		2.0		3.1		1.2		3.0		4.6		1.2
CV		54.14		35.78		49.9		38.52		4.9		68.93
Levene's F		2.289		2.006		6.634		1.056		0.71		1.593
Levene's Prob(F)		0.022*		0.045*		0.001*		0.421		0.743		0.126
Skewness		0.6471*		1.1814*		1.3699*		1.2757*		-1.306*		1.461*
Kurtosis		-0.9657		0.787		0.6057		0.9341		0.817		1.1547
Replicate F		1.649		0.565		1.936		0.911		0.822		1.648
Replicate Prob(F)		0.1938		0.6415		0.1397		0.4443		0.4894		0.1941
Treatment F		11.423		23.383		29.641		30.325		3.590		12.471
Treatment Prob(F)		0.0001		0.0001		0.0001		0.0001		0.0010		0.0001

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.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 9 because error mean square = 0.

# Purdue Weed Science

Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed		W Weed AMBTR Giant ragweed		W Weed AMBTR Giant ragweed	
Crop Code Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Assessed By	ZEAMX Corn PLOT - Jun-5-2018 PHYNEC % 1 D. JOHNSON	ZEAMX Corn PLOT - Jun-5-2018 CONTROL % 1 D. JOHNSON	ZEAMX Corn PLOT - Jun-18-2018 PHYNEC % 1 D. JOHNSON	ZEAMX Corn PLOT - Jun-18-2018 CONTROL % 1 D. JOHNSON	ZEAMX Corn PLOT - Jul-17-2018 CONTROL % 1 D. JOHNSON	ZEAMX Corn PLOT - Jul-17-2018 CONTROL % 1 D. JOHNSON	
Rating Timing Days After First/Last Applic. Trt-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	A3 14 14 14 DA-A 29 DE-1 P 0	A3 14 14 14 DA-A 29 DE-1 P 0	A4 27 27 14 DA-A 42 DE-1 P 0	A4 27 27 14 DA-A 42 DE-1 P 0	A5 56 56 14 DA-A 71 DE-1 P 0	A5 56 56 14 DA-A 71 DE-1 P 0	
Trt Treatment No. Name	Rate Rate Unit	Appl Code	7	8	9	10	11
1 UNTREATED CHECK			0	0	0	0	0
2 ROUNDUP POWERMAX DIFLEXX N-PAK AMS	27 fl oz/a A 16 fl oz/a A 2.5 % v/v A		0 g	96 abc	0 -	81 cd	64 def
3 HARNESS MAX ROUNDUP POWERMAX N-PAK AMS	40 fl oz/a A 27 fl oz/a A 2.5 % v/v A		2 efg	91 e	0 -	72 e	39 g
4 HALEX GT ACTIVATOR 90 NIS N-PAK AMS	1.8 qt/a A 0.25 % v/v A 2.5 % v/v A		2 efg	91 e	0 -	75 de	53 fg
5 RESICORE ROUNDUP POWERMAX N-PAK AMS	1.25 qt/a A 27 fl oz/a A 2.5 % v/v A		0 g	96 abc	0 -	90 ab	84 abc
6 HARNESS XTRA ROUNDUP POWERMAX DIFLEXX N-PAK AMS	2 qt/a A 27 fl oz/a A 16 fl oz/a A 2.5 % v/v A		9 b	98 ab	0 -	81 bcd	70 cde
7 HARNESS MAX ROUNDUP POWERMAX N-PAK AMS	64 fl oz/a A 30 fl oz/a A 2.5 % v/v A		6 bc	95 bcd	0 -	86 abc	75 bcd
8 HARNESS MAX ROUNDUP POWERMAX ACTIVATOR 90 NIS N-PAK AMS	64 fl oz/a A 30 fl oz/a A 0.25 % v/v A 2.5 % v/v A		8 b	97 ab	0 -	93 a	91 a
9 HALEX GT ACTIVATOR 90 NIS N-PAK AMS	2 qt/a A 0.25 % v/v A 2.5 % v/v A		1 fg	93 cde	0 -	76 de	60 ef
10 RESICORE ROUNDUP POWERMAX N-PAK AMS	2.25 qt/a A 30 fl oz/a A 2.5 % v/v A		4 cde	97 ab	0 -	88 abc	79 abc
11 HARNESS MAX ROUNDUP POWERMAX AATREX N-PAK AMS	64 fl oz/a A 30 fl oz/a A 1 qt/a A 2.5 % v/v A		16 a	98 a	0 -	92 a	92 a
12 HARNESS MAX ROUNDUP POWERMAX AATREX ACTIVATOR 90 NIS N-PAK AMS	64 fl oz/a A 30 fl oz/a A 1 qt/a A 0.25 % v/v A 2.5 % v/v A		18 a	98 ab	0 -	90 a	80 abc

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.  
 Untreated treatment(s) 1 excluded from analysis.  
 Could not calculate LSD (% mean diff) for columns 9 because error mean square = 0.

## Purdue Weed Science

Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed		W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-5-2018	Jun-5-2018	Jun-18-2018	Jun-18-2018	Jul-17-2018
Rating Type	PHYNEC	CONTROL	PHYNEC	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A3	A3	A4	A4	A5
Days After First/Last Applic.	14 14	14 14	27 27	27 27	56 56
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	29 DE-1	29 DE-1	42 DE-1	42 DE-1	71 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt No.	7	8	9	10	11
Treatment Name					
Rate					
Unit					
Appl Code					
13 HALEX GT	2 qt/a A	3 def	98 ab	0 -	89 abc
AATREX	1 qt/a A				89 ab
ACTIVATOR 90 NIS	0.25 % v/v A				
N-PAK AMS	2.5 % v/v A				
14 RESICORE	2.25 qt/a A	5 cd	97 ab	0 -	91 a
ROUNDUP POWERMAX	30 fl oz/a A				92 a
AATREX	1 qt/a A				
N-PAK AMS	2.5 % v/v A				
15 CAPRENO	3 fl oz/a A	0 g	92 de	0 -	74 de
DESTINY HC	0.5 % v/v A				59 ef
ROUNDUP POWERMAX	30 fl oz/a A				
N-PAK AMS	2.5 % v/v A				
LSD P=.05	2.7	3.3	.	8.3	14.3
Standard Deviation	1.9	2.3	0.0	5.8	10.0
CV	36.94	2.41	0.0	6.93	13.69
Levene's F	1.73	2.672	0.00	0.826	1.141
Levene's Prob(F)	0.09	0.008*	0.00*	0.632	0.355
Skewness	1.2303*	-0.9506*	.	-0.1628	-0.3198
Kurtosis	0.7431	0.2373	.	-1.2228	-0.9504
Replicate F	1.719	1.947	0.000	1.705	0.816
Replicate Prob(F)	0.1789	0.1379	1.0000	0.1818	0.4929
Treatment F	34.941	5.243	0.000	6.479	10.874
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001	0.0001

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.  
 Untreated treatment(s) 1 excluded from analysis.  
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# Purdue Weed Science

## Harness Max POST only Application Timing

Trial ID: 18S-TPAC-CORN-02      Location: TPAC      Trial Year: 2018  
Protocol ID: 18S-TPAC-CORN-02      Investigator: Dr. Bill Johnson  
Project ID: 2018-01-24-11      Study Director: Dustin Johnson  
Sponsor Contact: D. Childs - Monsanto

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

Rating Type

PHYCHL = phytotoxicity - chlorosis

PHYNEC = phytotoxicity - necrosis /burn

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

ARM Action Codes

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