

Purdue Weed Science

2-Pass Corn Herbicide Programs

Trial ID: 18S-TPAC-CORN-07 Location: TPAC Trial Year: 2018
 Protocol ID: 18S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
 Project ID: HP18USAWMUUEF1 Study Director: Dustin Johnson
 Sponsor Contact: A. Kurtz - Bayer

General Trial Information

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

Discipline: H herbicide

Trial Location

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

Latitude of LL Corner °: 40.29175 N
Longitude of LL Corner °: 86.90631 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 Rate, Unit: 32000 S/A **Planting Equipment:** PP plot planter
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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 11
Replications: 4
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.

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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:	Apr-27-2018	May-22-2018
Appl. Start Time:	4:10 PM	12:10 PM
Appl. Stop Time:	4:30 PM	12:30 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS
Application Placement:	BROADC	BROADC
Applied By:	T. CAMPBELL	M. ZIMMER
Air Temperature, Unit:	67 F	73 F
% Relative Humidity:	22	82
Wind Velocity, Unit:	10 MPH	3 MPH
Wind Direction:	WNW	WNW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	61 F	68 F
Soil Moisture:	DRY	SLIWET
% Cloud Cover:	0	80

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00	14
Stage Minimum, Percent:	00	13
Stage Maximum, Percent:	00	14
Height, Unit:		7 IN
Height Minimum, Maximum:		4.5 9.5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	00	14
Stage Minimum, Percent:	00	10
Stage Maximum, Percent:	00	19
Height, Unit:		3 IN
Height Minimum, Maximum:		0.25 12
Density, Unit:		13 FT2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	00	12
Stage Minimum, Percent:	00	10
Stage Maximum, Percent:	00	19
Height, Unit:		1.5 IN
Height Minimum, Maximum:		0.25 3.5
Density, Unit:		3 FT2

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Application Equipment

	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	29 PSI	18 PSI
Nozzle Type:	TTI	FLAFXR
Nozzle Size:	110015	XR11002
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 L	1.8 L
Propellant:	COMCO2	COMCO2

Date	By	Notes
Jun-8-2018	D. JOHNSON	Evening storm brought hail and damage to crop occurred.

Purdue Weed Science

2-Pass Corn Herbicide Programs

Trial ID: 18S-TPAC-CORN-07
Protocol ID: 18S-TPAC-CORN-07
Project ID: HP18USAWMUUEF1

Location: TPAC Trial Year: 2018
Investigator: Dr. Bill Johnson
Study Director: Dustin Johnson
Sponsor Contact: A. Kurtz - Bayer

Reps: 4 Plots: 10 by 30 feet
Spray vol: 15 GAL/AC Mix Size: 1.8 L (total for 4 plots; minimum=1.564 L)

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	303	501	604
2	CORVUS	2.63 LB/GAL		SC	4.5 oz/a	A	AT PLANTING	4.219 mL/mx	102	403	505	706
	AATREX	4 LB/GAL		L	1.5 qt/a	A	AT PLANTING	45.0 mL/mx				
	CAPRENO	3.45 LB/GAL		SC	3 oz/a	B	3-4" WEEDS	2.812 mL/mx				
	LIBERTY 280 SL	2.34 LB/GAL		SL	22 oz/a	B	3-4" WEEDS	20.62 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
3	CORVUS	2.63 LB/GAL		SC	4.5 oz/a	A	AT PLANTING	4.219 mL/mx	103	302	601	703
	AATREX	4 LB/GAL		L	1.5 qt/a	A	AT PLANTING	45.0 mL/mx				
	DIFLEXX DUO	1.53 LBAE/GAL		SC	24 oz/a	B	3-4" WEEDS	22.5 mL/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 oz/a	B	3-4" WEEDS	20.62 mL/mx				
	COC	100 %		SL	1 % v/v	B	3-4" WEEDS	18.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
4	BALANCE FLEXX	2 LB/GAL		L	4 oz/a	A	AT PLANTING	3.75 mL/mx	104	206	503	605
	AATREX	4 LB/GAL		L	1.5 qt/a	A	AT PLANTING	45.0 mL/mx				
	CAPRENO	3.45 LB/GAL		SC	3 oz/a	B	3-4" WEEDS	2.812 mL/mx				
	COC	100 %		SL	1 % v/v	B	3-4" WEEDS	18.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
5	BALANCE FLEXX	2 LB/GAL		L	4 oz/a	A	AT PLANTING	3.75 mL/mx	105	305	406	701
	AATREX	4 LB/GAL		L	1.5 qt/a	A	AT PLANTING	45.0 mL/mx				
	DIFLEXX DUO	1.53 LBAE/GAL		SC	32 oz/a	B	3-4" WEEDS	30.0 mL/mx				
	COC	100 %		SL	1 % v/v	B	3-4" WEEDS	18.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
6	BALANCE FLEXX	2 LB/GAL		L	4 oz/a	A	AT PLANTING	3.75 mL/mx	106	301	405	704
	HARNESS	7 LB/GAL		EC	1.5 pt/a	A	AT PLANTING	22.5 mL/mx				
	AATREX	4 LB/GAL		L	1.5 qt/a	A	3-4" WEEDS	45.0 mL/mx				
	DIFLEXX DUO	1.53 LBAE/GAL		SC	32 oz/a	B	3-4" WEEDS	30.0 mL/mx				
	COC	100 %		SL	1 % v/v	B	3-4" WEEDS	18.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
7	BALANCE FLEXX	2 LB/GAL		L	4 oz/a	A	AT PLANTING	3.75 mL/mx	201	304	506	802
	AATREX	4 LB/GAL		L	1.5 qt/a	A	AT PLANTING	45.0 mL/mx				
	DIFLEXX DUO	1.53 LBAE/GAL		SC	24 oz/a	B	3-4" WEEDS	22.5 mL/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 oz/a	B	3-4" WEEDS	20.62 mL/mx				
	COC	100 %		SL	1 % v/v	B	3-4" WEEDS	18.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
8	BALANCE FLEXX	2 LB/GAL		L	4 oz/a	A	AT PLANTING	3.75 mL/mx	202	401	502	606
	AATREX	4 LB/GAL		L	1.0 qt/a	A	AT PLANTING	30.0 mL/mx				
	LIBERTY 280 SL	2.34 LB/GAL		SL	22 oz/a	B	3-4" WEEDS	20.62 mL/mx				
	AATREX	4 LB/GAL		L	1 qt/a	B	3-4" WEEDS	30.0 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
9	BALANCE FLEXX	2 LB/GAL		L	4 oz/a	A	AT PLANTING	3.75 mL/mx	203	402	603	801
	AATREX	4 LB/GAL		L	1.5 qt/a	A	AT PLANTING	45.0 mL/mx				
	LIBERTY 280 SL	2.34 LB/GAL		SL	22 oz/a	B	3-4" WEEDS	20.62 mL/mx				
	DIFLEXX	4 LB/GAL		SC	8 oz/a	B	3-4" WEEDS	7.5 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
10	LEXAR EZ	3.704 LB/GAL		L	3 qt/a	A	AT PLANTING	90.0 mL/mx	204	404	602	705
	HALEX GT	4.389 LBAE/GAL		L	3.6 pt/a	B	3-4" WEEDS	54.0 mL/mx				
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v	B	3-4" WEEDS	4.5 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				
11	RESICORE	3.29 LB/GAL		L	2.5 qt/a	A	AT PLANTING	75.0 mL/mx	205	306	504	702
	DURANGO DMA	4 LBAE/GAL		SL	1.5 pt/a	B	3-4" WEEDS	22.5 mL/mx				
	N-PAK AMS	3.4 LBA/GAL		L	2.5 % v/v	B	3-4" WEEDS	45.0 mL/mx				

Sort Order: Treatment

Purdue Weed Science

2-Pass Corn Herbicide Programs

Trial ID: 18S-TPAC-CORN-07
Protocol ID: 18S-TPAC-CORN-07
Project ID: HP18USAWMUUEF1

Location: TPAC Trial Year: 2018
Investigator: Dr. Bill Johnson
Study Director: Dustin Johnson
Sponsor Contact: A. Kurtz - Bayer

Pest Type Pest Code Pest Name			W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail	
Crop Code Crop Name Part Rated Rating Date	ZEAMX Corn PLOT - May-22-2018	ZEAMX Corn PLOT - May-22-2018	ZEAMX Corn PLOT - May-22-2018	ZEAMX Corn PLOT - May-29-2018	ZEAMX Corn PLOT - May-29-2018	ZEAMX Corn PLOT - May-29-2018		
Rating Type Rating Unit Number of Subsamples Assessed By Rating Timing Days After First/Last Applic. Trt-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	PHYGEN % 1 M. ZIMMER A1 25 25 14 DA-A 15 DE-1 P 0	CONTROL % 1 M. ZIMMER A1 25 25 14 DA-A 15 DE-1 P 0	CONTROL % 1 M. ZIMMER A1 25 25 14 DA-A 15 DE-1 P 0	PHYGEN % 1 J. IKLEY A2 32 7 14 DA-A 22 DE-1 P 0	CONTROL % 1 J. IKLEY A2 32 7 14 DA-A 22 DE-1 P 0	CONTROL % 1 J. IKLEY A2 32 7 14 DA-A 22 DE-1 P 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 CORVUS AATREX CAPRENO LIBERTY 280 SL N-PAK AMS	4.5 oz/a A 1.5 qt/a A 3 oz/a B 22 oz/a B 2.5 % v/v B		1 -	54 ab	84 -	0 -	98 ab	99 a
3 CORVUS AATREX DIFLEXX DUO ROUNDUP POWERMAX COC N-PAK AMS	4.5 oz/a A 1.5 qt/a A 24 oz/a B 22 oz/a B 1 % v/v B 2.5 % v/v B		1 -	60 ab	83 -	0 -	99 a	100 a
4 BALANCE FLEXX AATREX CAPRENO COC N-PAK AMS	4 oz/a A 1.5 qt/a A 3 oz/a B 1 % v/v B 2.5 % v/v B		2 -	69 ab	86 -	0 -	95 c	91 b
5 BALANCE FLEXX AATREX DIFLEXX DUO COC N-PAK AMS	4 oz/a A 1.5 qt/a A 32 oz/a B 1 % v/v B 2.5 % v/v B		2 -	56 ab	86 -	0 -	97 abc	88 b
6 BALANCE FLEXX HARNES AATREX DIFLEXX DUO COC N-PAK AMS	4 oz/a A 1.5 pt/a A 1.5 qt/a A 32 oz/a B 1 % v/v B 2.5 % v/v B		1 -	51 bc	88 -	0 -	98 a	97 a
7 BALANCE FLEXX AATREX DIFLEXX DUO ROUNDUP POWERMAX COC N-PAK AMS	4 oz/a A 1.5 qt/a A 24 oz/a B 22 oz/a B 1 % v/v B 2.5 % v/v B		2 -	28 d	85 -	0 -	99 a	100 a
8 BALANCE FLEXX AATREX LIBERTY 280 SL AATREX N-PAK AMS	4 oz/a A 1.0 qt/a A 22 oz/a B 1 qt/a B 2.5 % v/v B		1 -	31 cd	80 -	0 -	98 ab	97 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.

Missing data estimates are included in columns: Yates=2

Could not calculate LSD (% mean diff) for columns 4 because error mean square = 0.

Purdue Weed Science

Pest Type			W Weed	W Weed		W Weed	W Weed
Pest Code			AMBTR	SETFA		AMBTR	SETFA
Pest Name			Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail
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-22-2018		May-22-2018	May-22-2018	May-29-2018	May-29-2018	May-29-2018
Rating Type	PHYGEN		CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL
Rating Unit	%		%	%	%	%	%
Number of Subsamples	1		1	1	1	1	1
Assessed By	M. ZIMMER		M. ZIMMER	M. ZIMMER	J. IKLEY	J. IKLEY	J. IKLEY
Rating Timing	A1		A1	A1	A2	A2	A2
Days After First/Last Applic.	25 25		25 25	25 25	32 7	32 7	32 7
Trt-Eval Interval	14 DA-A		14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	15 DE-1		15 DE-1	15 DE-1	22 DE-1	22 DE-1	22 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
9 BALANCE FLEXX	4 oz/a A	1 -	58 ab	76 -	0 -	98 ab	100 a
AATREX	1.5 qt/a A						
LIBERTY 280 SL	22 oz/a B						
DIFLEXX	8 oz/a B						
N-PAK AMS	2.5 % v/v B						
10 LEXAR EZ	3 qt/a A	0 -	5 e	83 -	0 -	95 c	100 a
HALEX GT	3.6 pt/a B						
ACTIVATOR 90 NIS	0.25 % v/v B						
N-PAK AMS	2.5 % v/v B						
11 RESICORE	2.5 qt/a A	2 -	75 a	95 -	0 -	95 bc	100 a
DURANGO DMA	1.5 pt/a B						
N-PAK AMS	2.5 % v/v B						
LSD P=.05		2.2	22.0	10.1	.	2.4	4.4
Standard Deviation		1.5	15.1	6.9	0.0	1.7	3.1
CV		124.77	31.02	8.23	0.0	1.74	3.16
Levene's F		0.815	1.076	0.475	0.00	1.831	2.547
Levene's Prob(F)		0.607	0.409	0.88	0.00*	0.104	0.026*
Skewness		0.8268*	-0.5067	-0.7828*	.	-0.2194	-1.8602*
Kurtosis		-0.5904	-1.2018	0.6804	.	-0.9351	2.8055*
Replicate F		1.523	3.553	3.309	0.000	0.588	3.125
Replicate Prob(F)		0.2311	0.0280	0.0351	1.0000	0.6280	0.0422
Treatment F		0.819	7.836	1.953	0.000	2.671	7.985
Treatment Prob(F)		0.6037	0.0001	0.0864	1.0000	0.0233	0.0001

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Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2

Could not calculate LSD (% mean diff) for columns 4 because error mean square = 0.

Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-5-2018	Jun-5-2018	Jun-19-2018	Jun-19-2018
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A3	A3	A4	A4
Days After First/Last Applic.	39 14	39 14	53 28	53 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	29 DE-1	29 DE-1	43 DE-1	43 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code		
			7	8
			9	10
1 UNTREATED CHECK			0	0
2 CORVUS	4.5 oz/a A		87 bc	100 a
AATREX	1.5 qt/a A			86 b
CAPRENO	3 oz/a B			96 ab
LIBERTY 280 SL	22 oz/a B			
N-PAK AMS	2.5 % v/v B			
3 CORVUS	4.5 oz/a A		89 b	100 a
AATREX	1.5 qt/a A			84 bc
DIFLEXX DUO	24 oz/a B			96 ab
ROUNDUP POWERMAX	22 oz/a B			
COC	1 % v/v B			
N-PAK AMS	2.5 % v/v B			
4 BALANCE FLEXX	4 oz/a A		87 bc	100 a
AATREX	1.5 qt/a A			83 bcd
CAPRENO	3 oz/a B			94 abc
COC	1 % v/v B			
N-PAK AMS	2.5 % v/v B			
5 BALANCE FLEXX	4 oz/a A		87 bc	93 b
AATREX	1.5 qt/a A			81 cde
DIFLEXX DUO	32 oz/a B			79 e
COC	1 % v/v B			
N-PAK AMS	2.5 % v/v B			
6 BALANCE FLEXX	4 oz/a A		87 bc	98 a
HARNESS	1.5 pt/a A			79 def
AATREX	1.5 qt/a A			87 cd
DIFLEXX DUO	32 oz/a B			
COC	1 % v/v B			
N-PAK AMS	2.5 % v/v B			
7 BALANCE FLEXX	4 oz/a A		87 bc	99 a
AATREX	1.5 qt/a A			82 bcd
DIFLEXX DUO	24 oz/a B			89 bcd
ROUNDUP POWERMAX	22 oz/a B			
COC	1 % v/v B			
N-PAK AMS	2.5 % v/v B			
8 BALANCE FLEXX	4 oz/a A		86 c	100 a
AATREX	1.0 qt/a A			76 f
LIBERTY 280 SL	22 oz/a B			84 de
AATREX	1 qt/a B			
N-PAK AMS	2.5 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2

Could not calculate LSD (% mean diff) for columns 4 because error mean square = 0.

Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-5-2018	Jun-5-2018	Jun-19-2018	Jun-19-2018
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A3	A3	A4	A4
Days After First/Last Applic.	39 14	39 14	53 28	53 28
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	29 DE-1	29 DE-1	43 DE-1	43 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code		
			7	8
9 BALANCE FLEXX	4 oz/a A		87 bc	99 a
AATREX	1.5 qt/a A			
LIBERTY 280 SL	22 oz/a B			
DIFLEXX	8 oz/a B			
N-PAK AMS	2.5 % v/v B			
10 LEXAR EZ	3 qt/a A		85 c	100 a
HALEX GT	3.6 pt/a B			
ACTIVATOR 90 NIS	0.25 % v/v B			
N-PAK AMS	2.5 % v/v B			
11 RESICORE	2.5 qt/a A		94 a	100 a
DURANGO DMA	1.5 pt/a B			
N-PAK AMS	2.5 % v/v B			
LSD P=.05	2.7	3.0	4.1	7.5
Standard Deviation	1.9	2.1	2.8	5.2
CV	2.14	2.13	3.46	5.71
Levene's F	1.657	1.251	0.709	1.435
Levene's Prob(F)	0.144	0.303	0.696	0.218
Skewness	1.4019*	-3.6561*	0.5959	-0.4534
Kurtosis	2.1186*	16.2051*	-0.026	-0.9235
Replicate F	0.248	1.939	2.205	5.896
Replicate Prob(F)	0.8621	0.1471	0.1105	0.0031
Treatment F	6.439	3.825	9.945	6.740
Treatment Prob(F)	0.0001	0.0032	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.

Missing data estimates are included in columns: Yates=2

Could not calculate LSD (% mean diff) for columns 4 because error mean square = 0.

Purdue Weed Science

2-Pass Corn Herbicide Programs

Trial ID: 18S-TPAC-CORN-07 Location: TPAC Trial Year: 2018
Protocol ID: 18S-TPAC-CORN-07 Investigator: Dr. Bill Johnson
Project ID: HP18USAWMUUEF1 Study Director: Dustin Johnson
Sponsor Contact: A. Kurtz - Bayer

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = 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

ARM Action Codes

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