

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

General Trial Information

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

Discipline: H herbicide
Trial Status: E established

ARM Trial Created On: Oct-15-2019
Initiation Date: May-21-2019

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 °: -86.90844 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Role: STYDIR
Study Director: Dustin Johnson & Marcelo Zimmer **Title:** Research Associate
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** john1357@purdue.edu
City: West Lafayette, IN **Postal Code:** 47907

Role: INVEST
Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** wgj@purdue.edu
City: West Lafayette, IN **Postal Code:** 47907

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

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Crop Description

Crop 1: C	ZEAMX Zea mays	Corn	BBCH Scale: BC
Entry Date:	May-23-2019	Stage Scale:	BBCH
Variety:	DKC62-52RIB	Planting Rate:	32000 S/A
Attributes:	RR/LL Stacked	Planting Method:	PLANTD planted
Planting Date:	May-21-2019	Planting Equipment:	PP plot planter
Depth:	1.75 IN	Soil Moisture:	SLIWET slightly wet, moist
Rows per Plot:	4		
Row Spacing:	30 IN		
Soil Temperature:	58 F		
Emergence Date:	May-31-2019		
Crop 2: C	ZEAMX Zea mays	Corn	BBCH Scale: BC
Entry Date:	May-23-2019	Stage Scale:	BBCH
Variety:	PIONEER 1003793-47	Planting Rate:	32000 S/A
Attributes:	ENLIST 2,4-D/RR/LL	Planting Method:	PLANTD planted
Planting Date:	May-21-2019	Planting Equipment:	PP plot planter
Depth:	1.75 IN	Soil Moisture:	SLIWET slightly wet, moist
Rows per Plot:	4		
Row Spacing:	30 IN		
Soil Temperature:	58 F		
Emergence Date:	May-31-2019		
% Standard Moisture:	15.5	Harvested Width:	5 FT
		Harvested Length:	25 FT

Pest Description

Pest 1 Type: W	Code: AMBTR Ambrosia trifida	Entry Date: Jun-12-2019
Common Name:	Giant ragweed	Stage Scale: BBCH
Pest 2 Type: W	Code: SETFA Setaria faberi	Entry Date: Jun-12-2019
Common Name:	Giant foxtail	Stage Scale: BBCH
Pest 3 Type: W	Code: SETPU Setaria helvola	Entry Date: Jun-12-2019
Common Name:	yellow foxtail	Stage Scale: BBCH
Pest 4 Type: W	Code: ECHSS Echinochloa sp.	Entry Date: Jun-12-2019
Common Name:	Barnyardgrass	Stage Scale: BBCH

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 FT ²	Tillage Type:	CONTIL conventional-till
Treatments:	13	Study Design:	RACOB� Randomized Compl
Replications:	4		

Field Prep./Maintenance:

4/21/19 Farm Applied 180 lbs of N applied as UAN 28-0-0.

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Soil Description

Description Name: TPAC- Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.44 **Soil Name:** Toronto-Millbrook
CEC: 10.67

Application Description

	A	B	C
Application Date	May-21-2019	Jun-11-2019	Jun-18-2019
Appl. Start Time	3:25 PM	12:00 PM	12:10 PM
Appl. Stop Time	4:10 PM	12:03 PM	12:50 PM
Interval to Prev. Appl.		21 DAYS	7 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PREPRE	POSPOS	POSPOS
Application Placement	BROADC	BROADC	BROADC
Applied By	J. HAARMANN	D. JOHNSON	D. JOHNSON
Appl. Entry Date	May-23-2019	Jun-12-2019	Jun-20-2019
Air Temperature Start, Stop	56 F	74	87
% Relative Humidity Start, Stop	72	41	63
Wind Velocity+Dir. Start	9 MPH E	3 MPH SW	3 MPH NE
Soil Temperature	58 F	77 F	81 F
Soil Moisture	SLIWET	DRY	DRY
% Cloud Cover	100	10	50

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	ZEAMX BCOR	BCOR	BCOR
Days after Emergence	-10	11	18
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	14	15
Stage Minimum, Percent	00	12	13
Stage Maximum, Percent	00	14	15
Diameter Average	0 IN	0 IN	0 IN
Height Average	0 IN	7 IN	9 IN
Height Minimum, Maximum	0 0	4 10	6 11
Crop 2 Code, BBCH Scale	BCOR	BCOR	BCOR
Days after Emergence	-10	11	18
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	14	15
Stage Minimum, Percent	00	12	13
Stage Maximum, Percent	00	14	15
Diameter Average	0 IN	0 IN	0 IN
Height Average	0 IN	7 IN	9 IN
Height Minimum, Maximum	0 0	4 10	6 11

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 Protocol ID: 19S-TPAC-CORN-05
 Project ID: Showcase

Location: TPAC
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Trial

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale	AMBTR W					
Stage Majority, Percent	00		14		15	
Stage Minimum, Percent	00		10		10	
Stage Maximum, Percent	00		16		18	
Height Average	0	IN	3	IN	6	IN
Height Minimum, Maximum	0	0	0	6	0	16
Density Average	0	00	8	FT2	5	FT2
Density Minimum, Maximum	0	0	0	15	0	15
Pest 2 Code, Type, Scale			W			
Stage Majority, Percent	00		13		00	
Stage Minimum, Percent	00		10		00	
Stage Maximum, Percent	00		15		00	
Height Average	0	IN	3	IN	0	IN
Height Minimum, Maximum	0	0	0.25	5	0	0
Density Average	0	00	6	FT2	0	00
Density Minimum, Maximum	0	0	0	12	0	0
Stage Majority, Percent	00		13		00	
Stage Minimum, Percent	00		10		00	
Stage Maximum, Percent	00		15		00	
Height Average	0	IN	3	IN	0	IN
Height Minimum, Maximum	0	0	0.25	5	0	0
Density Average	0	00	6	FT2	0	00
Density Minimum, Maximum	0	0	0	12	0	0
Stage Majority, Percent	00		13		00	
Stage Minimum, Percent	00		10		00	
Stage Maximum, Percent	00		15		00	
Height Average	0	IN	3	IN	0	IN
Height Minimum, Maximum	0	0	0.25	5	0	0
Density Average	0	00	2	FT2	0	00
Density Minimum, Maximum	0	0	0	4	0	0

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Application Equipment

	A	B	C
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	29 PSI	18 PSI	29 PSI
Nozzle Type	TTI	FLAFXR	AIXR
Nozzle Size	110015	XR8002	110015
Nozzle Spacing	15 IN	15 IN	15 IN
Nozzles/Row	8	8	8
Boom Length	10 FT	10 FT	10 FT
Boom Height	17 IN	17 IN	17 IN
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	1.8 liters	1.8 liters	1.8 liters
Propellant	COMCO2	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Apr-19-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
MAINT	May-21-2019	Co-op Applied	Farm Applied 180 lbs of N applied as UAN 28-0-0.
STATUS	May-23-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.
APPLIC	Jun-18-2019	D. JOHNSON	Application "C" was applied due to corn size rather than weed size & emergence. Trtmnts 11 & 13 have tall & covered with AMBTR. All other "C" applications were clean & not many grasses in plots sprayed. Plots 104-107 corn is smaller overall-rain.
GENTRI	Jun-25-2019	D. JOHNSON	Enlist/Enlist Duo trtmnts corn is leaning on ground extensively. In the Assure II post the non Enlist corn is dead and both corn varieties are dead from the Select Max post trtmnt.
GENTRI	Jul-2-2019	D. JOHNSON	Crop Injury was stunting, leaning and brace root abnormality.
GENTRI	Aug-13-2019	D. JOHNSON	The crop injury that remained was root abnormality to the non Enlist corn that was sprayed post with Enlist Duo. The dot in crop injury was dead non Enlist corn that was sprayed post with Select Max.

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	Sponsor Contact: Coretva & Syngenta	

Reps: 4

Plots: 10 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.8 liters (total for 4 plots; minimum=1.564 liters)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Amount	Amount Unit	Mix Size	Mix Unit	Amt Product to Measure	Rep
1	UNTREATED CHECK											101
2	RESICORE	3.29 LB/GAL	L		2.75 qt/a		15 GAL/AC		1.8 liters		82.5 mL/mx	102
	ENLIST DUO	3.34 LBAE/GAL	SL		56 fl oz/a		15 GAL/AC		1.8 liters		52.5 mL/mx	
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v		15 GAL/AC		1.8 liters		45.0 mL/mx	
3	RESICORE	3.29 LB/GAL	L		2.75 qt/a		15 GAL/AC		1.8 liters		82.5 mL/mx	103
	REALM Q @ 4 OZ/A						15 GAL/AC		1.8 liters			
	MESOTRIONE	50 %		WG	2.5 oz/a		15 GAL/AC		1.8 liters		2.247 g/mx	
	RESOLVE	25 %		DF	1.2 oz/a		15 GAL/AC		1.8 liters		1.078 g/mx	
	ISOXADIFEN-ETHYL	50 %		WG	0.3 oz/a		15 GAL/AC		1.8 liters		0.2696 g/mx	
4	SURESTART II	4.25 LB/GAL	L		2.5 pt/a		15 GAL/AC		1.8 liters		37.5 mL/mx	104
	ENLIST DUO	3.34 LBAE/GAL	SL		56 fl oz/a		15 GAL/AC		1.8 liters		52.5 mL/mx	
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v		15 GAL/AC		1.8 liters		45.0 mL/mx	
5	SURESTART II	4.25 LB/GAL	L		2.5 pt/a		15 GAL/AC		1.8 liters		37.5 mL/mx	105
	REALM Q @ 4 OZ/A						15 GAL/AC		1.8 liters			
	MESOTRIONE	50 %		WG	2.5 oz/a		15 GAL/AC		1.8 liters		2.247 g/mx	
	RESOLVE	25 %		DF	1.2 oz/a		15 GAL/AC		1.8 liters		1.078 g/mx	
	ISOXADIFEN-ETHYL	50 %		WG	0.3 oz/a		15 GAL/AC		1.8 liters		0.2696 g/mx	
6	SURESTART II	4.25 LB/GAL	L		2.5 pt/a		15 GAL/AC		1.8 liters		37.5 mL/mx	106
	ATRAZINE	4 LB/GAL	L		3 pt/a		15 GAL/AC		1.8 liters		45.0 mL/mx	
	REALM Q @ 4 OZ/A						15 GAL/AC		1.8 liters			
	MESOTRIONE	50 %		WG	2.5 oz/a		15 GAL/AC		1.8 liters		2.247 g/mx	
	RESOLVE	25 %		DF	1.2 oz/a		15 GAL/AC		1.8 liters		1.078 g/mx	
	ISOXADIFEN-ETHYL	50 %		WG	0.3 oz/a		15 GAL/AC		1.8 liters		0.2696 g/mx	
7	RESICORE	3.29 LB/GAL	L		2.75 qt/a		15 GAL/AC		1.8 liters		82.5 mL/mx	107
	ASSURE II	0.88 LB/GAL	EC		5 fl oz/a		15 GAL/AC		1.8 liters		4.687 mL/mx	
	COC	100 %		SL	1 % v/v		15 GAL/AC		1.8 liters		18.0 mL/mx	
8	RESICORE	3.29 LB/GAL	L		2.75 qt/a		15 GAL/AC		1.8 liters		82.5 mL/mx	201
	SELECT MAX	0.97 LB/GAL	L		12 fl oz/a		15 GAL/AC		1.8 liters		11.25 mL/mx	
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v		15 GAL/AC		1.8 liters		4.5 mL/mx	
9	ACURON	3.44 LB/GAL	ZC		3 qt/a		15 GAL/AC		1.8 liters		90.0 mL/mx	202
10	ACURON	3.44 LB/GAL	ZC		1.5 qt/a		15 GAL/AC		1.8 liters		45.0 mL/mx	203
	HALEX GT	4.389 LBAE/GAL	L		3.6 pt/a		15 GAL/AC		1.8 liters		54.0 mL/mx	
	AATREX	4 LB/GAL	L		1 pt/a		15 GAL/AC		1.8 liters		15.0 mL/mx	
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v		15 GAL/AC		1.8 liters		4.5 mL/mx	
	N-PAK AMS	3.4 LBA/GAL	L		2.5 % v/v		15 GAL/AC		1.8 liters		45.0 mL/mx	

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Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Reps: 4

Plots: 10 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.8 liters (total for 4 plots; minimum=1.564 liters)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Amount Unit	Mix Size Unit	Mix Unit	Amt to Measure	Rep
11	BICEP II MAGNUM	5.5 LB/GAL		SC	1.5 qt/a	15 GAL/AC	1.8 liters		45.0 mL/mx	204
	HALEX GT	4.389 LBAE/GAL	L	L	3.6 pt/a	15 GAL/AC	1.8 liters		54.0 mL/mx	
	AATREX	4 LB/GAL		L	1 pt/a	15 GAL/AC	1.8 liters		15.0 mL/mx	
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v	15 GAL/AC	1.8 liters		4.5 mL/mx	
	N-PAK AMS	3.4 LBA/GAL	L	L	2.5 % v/v	15 GAL/AC	1.8 liters		45.0 mL/mx	
12	HALEX GT	4.389 LBAE/GAL	L	L	4 pt/a	15 GAL/AC	1.8 liters		60.0 mL/mx	205
	AATREX	4 LB/GAL		L	1 pt/a	15 GAL/AC	1.8 liters		15.0 mL/mx	
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v	15 GAL/AC	1.8 liters		4.5 mL/mx	
	N-PAK AMS	3.4 LBA/GAL	L	L	2.5 % v/v	15 GAL/AC	1.8 liters		45.0 mL/mx	
13	BICEP II MAGNUM	5.5 LB/GAL		SC	1.5 qt/a	15 GAL/AC	1.8 liters		45.0 mL/mx	206
	HALEX GT	4.389 LBAE/GAL	L	L	3.6 pt/a	15 GAL/AC	1.8 liters		54.0 mL/mx	
	STATUS	56 %		DG	3 oz/a	15 GAL/AC	1.8 liters		2.696 g/mx	
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v	15 GAL/AC	1.8 liters		4.5 mL/mx	
	N-PAK AMS	3.4 LBA/GAL	L	L	2.5 % v/v	15 GAL/AC	1.8 liters		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
412.499	mL	RESICORE	3.29	LB/GAL	L	
131.250	mL	ENLIST DUO	3.34	LBAE/GAL	SL	
337.463	mL	N-PAK AMS	3.4	LBA/GAL	L	
8.425	g	MESOTRIONE	50	%	WG	
4.044	g	RESOLVE	25	%	DF	
1.011	g	ISOXADIFEN-ETHYL	50	%	WG	
140.625	mL	SURESTART II	4.25	LB/GAL	L	
56.250	mL	ATRAZINE	4	LB/GAL	L	
5.859	mL	ASSURE II	0.88	LB/GAL	EC	
22.498	mL	COC	100	%	SL	
14.062	mL	SELECT MAX	.97	LB/GAL	L	
28.122	mL	ACTIVATOR 90 NIS	100	%	SL	
168.749	mL	ACURON	3.44	LB/GAL	ZC	
277.500	mL	HALEX GT	4.389	LBAE/GAL	L	
56.250	mL	AATREX	4	LB/GAL	L	
112.500	mL	BICEP II MAGNUM	5.5	LB/GAL	SC	
3.370	g	STATUS	56	%	DG	

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

* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 1.8 L (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

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

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Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019
SE Group No.	6	6	6
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1	A1
Days After First/Last Applic.	27 6	27 6	27 6
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			1 2 3
1 UNTREATED CHECK			0 0 0
2 RESICORE	2.75 qt/a A		0 b 0 b 94 a
ENLIST DUO	56 fl oz/a C		
N-PAK AMS	2.5 % v/v C		
3 RESICORE	2.75 qt/a A		0 b 0 b 94 a
REALM Q @ 4 OZ/A		C	
MESOTRIONE	2.5 oz/a C		
RESOLVE	1.2 oz/a C		
ISOXADIFEN-ETHYL	0.3 oz/a C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

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Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed		
Pest Code				AMBTR		
Pest Scientific Name				Ambrosia trifida		
Pest Name				Giant ragweed		
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX		
BBCH Scale	BCOR	BCOR		BCOR		
Crop Scientific Name	Zea mays	Zea mays		Zea mays		
Crop Name	Corn	Corn		Corn		
Crop Variety	PIONEER 1003793-47	DKC62-52RIB				
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked				
Rating Date	Jun-17-2019	Jun-17-2019		Jun-17-2019		
SE Group No.	6	6		6		
Part Rated	PLOT -	PLOT -		PLOT -		
Rating Type	PHYGEN	PHYGEN		CONTRO		
Rating Unit	%	%		%		
Sample Size						
Number of Subsamples	1	1		1		
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-20-2019	Jun-20-2019		Jun-20-2019		
Rating Timing	A1	A1		A1		
Days After First/Last Applic.	27 6	27 6		27 6		
Plant-Eval Interval	27 DP-1	27 DP-1		27 DP-1		
Days After Emergence	17 DE-1	17 DE-1		17 DE-1		
ARM Action Codes	P	P		P		
Number of Decimals	0	0		0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	
4 SURESTART II	2.5 pt/a	A	0 b	0 b	79 bc	
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
5 SURESTART II	2.5 pt/a	A	0 b	0 b	81 abc	
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed		
Pest Code				AMBTR		
Pest Scientific Name				Ambrosia trifida		
Pest Name				Giant ragweed		
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale		BCOR	BCOR	BCOR		
Crop Scientific Name		Zea mays	Zea mays	Zea mays		
Crop Name		Corn	Corn	Corn		
Crop Variety		PIONEER 1003793-47	DKC62-52RIB			
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date		Jun-17-2019	Jun-17-2019	Jun-17-2019		
SE Group No.		6	6	6		
Part Rated		PLOT -	PLOT -	PLOT -		
Rating Type		PHYGEN	PHYGEN	CONTRO		
Rating Unit		%	%	%		
Sample Size						
Number of Subsamples		1	1	1		
Assessed By		D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date		Jun-20-2019	Jun-20-2019	Jun-20-2019		
Rating Timing		A1	A1	A1		
Days After First/Last Applic.		27 6	27 6	27 6		
Plant-Eval Interval		27 DP-1	27 DP-1	27 DP-1		
Days After Emergence		17 DE-1	17 DE-1	17 DE-1		
ARM Action Codes		P	P	P		
Number of Decimals		0	0	0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	
6 SURESTART II	2.5 pt/a	A	0 b	0 b	83 abc	
ATRAZINE	3 pt/a	A				
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				
7 RESICORE	2.75 qt/a	A	0 b	0 b	94 a	
ASSURE II	5 fl oz/a	C				
COC	1 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed		
Pest Code				AMBTR		
Pest Scientific Name				Ambrosia trifida		
Pest Name				Giant ragweed		
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX		
BBCH Scale	BCOR	BCOR		BCOR		
Crop Scientific Name	Zea mays	Zea mays		Zea mays		
Crop Name	Corn	Corn		Corn		
Crop Variety	PIONEER 1003793-47	DKC62-52RIB				
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked				
Rating Date	Jun-17-2019	Jun-17-2019		Jun-17-2019		
SE Group No.	6	6		6		
Part Rated	PLOT -	PLOT -		PLOT -		
Rating Type	PHYGEN	PHYGEN		CONTRO		
Rating Unit	%	%		%		
Sample Size						
Number of Subsamples	1	1		1		
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-20-2019	Jun-20-2019		Jun-20-2019		
Rating Timing	A1	A1		A1		
Days After First/Last Applic.	27 6	27 6		27 6		
Plant-Eval Interval	27 DP-1	27 DP-1		27 DP-1		
Days After Emergence	17 DE-1	17 DE-1		17 DE-1		
ARM Action Codes	P	P		P		
Number of Decimals	0	0		0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	
8 RESICORE	2.75 qt/a	A	0 b	0 b	92 ab	
SELECT MAX	12 fl oz/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
9 ACURON	3 qt/a	A	0 b	0 b	89 abc	
10 ACURON	1.5 qt/a	A	0 b	0 b	76 c	
HALEX GT	3.6 pt/a	C				
AATREX	1 pt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed		
Pest Code				AMBTR		
Pest Scientific Name				Ambrosia trifida		
Pest Name				Giant ragweed		
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale		BCOR	BCOR	BCOR		
Crop Scientific Name		Zea mays	Zea mays	Zea mays		
Crop Name		Corn	Corn	Corn		
Crop Variety		PIONEER 1003793-47	DKC62-52RIB			
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date		Jun-17-2019	Jun-17-2019	Jun-17-2019		
SE Group No.		6	6	6		
Part Rated		PLOT -	PLOT -	PLOT -		
Rating Type		PHYGEN	PHYGEN	CONTRO		
Rating Unit		%	%	%		
Sample Size						
Number of Subsamples		1	1	1		
Assessed By		D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date		Jun-20-2019	Jun-20-2019	Jun-20-2019		
Rating Timing		A1	A1	A1		
Days After First/Last Applic.		27 6	27 6	27 6		
Plant-Eval Interval		27 DP-1	27 DP-1	27 DP-1		
Days After Emergence		17 DE-1	17 DE-1	17 DE-1		
ARM Action Codes		P	P	P		
Number of Decimals		0	0	0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	
11 BICEP II MAGNUM	1.5 qt/a	A	0 b	0 b	38 d	
HALEX GT	3.6 pt/a	C				
AATREX	1 pt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
12 HALEX GT	4 pt/a	B	3 a	3 a	87 abc	
AATREX	1 pt/a	B				
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		Trial
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jun-17-2019	Jun-17-2019		Jun-17-2019
SE Group No.	6	6		6
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019		Jun-20-2019
Rating Timing	A1	A1		A1
Days After First/Last Applic.	27 6	27 6		27 6
Plant-Eval Interval	27 DP-1	27 DP-1		27 DP-1
Days After Emergence	17 DE-1	17 DE-1		17 DE-1
ARM Action Codes	P	P		P
Number of Decimals	0	0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	1	2
				3
13 BICEP II MAGNUM	1.5 qt/a	A	0 b	0 b
HALEX GT	3.6 pt/a	C		18 e
STATUS	3 oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		
LSD P=.05			1.2	1.2
Standard Deviation			0.8	0.8
CV			400.0	400.0
Grand Mean			0.2	0.2
Levene's F				0.931
Levene's Prob(F)				0.523

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC		Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019
SE Group No.	6	6	6
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1	A1
Days After First/Last Applic.	27 6	27 6	27 6
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			1 2 3
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	4.7366*	4.7366*	-1.6295*
Kurtosis	21.3233*	21.3233*	1.3219
Replicate F	1.000	1.000	1.459
Replicate Prob(F)	0.4051	0.4051	0.2437
Treatment F	3.000	3.000	25.807
Treatment Prob(F)	0.0071	0.0071	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	SETPU	ECHSS	
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.	
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
SE Group No.	7	8	9	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	4	5
1 UNTREATED CHECK			0	0
2 RESICORE	2.75 qt/a	A	100 a	100 a
ENLIST DUO	56 fl oz/a	C		
N-PAK AMS	2.5 % v/v	C		
3 RESICORE	2.75 qt/a	A	100 a	99 a
REALM Q @ 4 OZ/A		C		
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019			
SE Group No.	7	8	9			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A1	A1	A1			
Days After First/Last Applic.	27 6	27 6	27 6			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		4	5	6
4 SURESTART II	2.5 pt/a	A		100 a	96 a	100 a
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
5 SURESTART II	2.5 pt/a	A		100 a	97 a	99 a
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019			
SE Group No.	7	8	9			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A1	A1	A1			
Days After First/Last Applic.	27 6	27 6	27 6			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		4	5	6
6 SURESTART II	2.5 pt/a	A	100 a	100 a	100 a	
ATRAZINE	3 pt/a	A				
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				
7 RESICORE	2.75 qt/a	A	100 a	100 a	100 a	
ASSURE II	5 fl oz/a	C				
COC	1 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019			
SE Group No.	7	8	9			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A1	A1	A1			
Days After First/Last Applic.	27 6	27 6	27 6			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		4	5	6
8 RESICORE	2.75 qt/a	A		100 a	100 a	100 a
SELECT MAX	12 fl oz/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
9 ACURON	3 qt/a	A		100 a	100 a	100 a
10 ACURON	1.5 qt/a	A		100 a	100 a	100 a
HALEX GT	3.6 pt/a	C				
AATREX	1 pt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019			
SE Group No.	7	8	9			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A1	A1	A1			
Days After First/Last Applic.	27 6	27 6	27 6			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		4	5	6
11 BICEP II MAGNUM	1.5 qt/a	A		100 a	98 a	100 a
HALEX GT	3.6 pt/a	C				
AATREX	1 pt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
12 HALEX GT	4 pt/a	B		100 a	99 a	100 a
AATREX	1 pt/a	B				
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019			
SE Group No.	7	8	9			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A1	A1	A1			
Days After First/Last Applic.	27 6	27 6	27 6			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		4	5	6
13 BICEP II MAGNUM	1.5 qt/a	A		100 a	98 a	100 a
HALEX GT	3.6 pt/a	C				
STATUS	3 oz/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
LSD P=.05				0.7	3.5	1.1
Standard Deviation				0.5	2.5	0.8
CV				0.45	2.5	0.75
Grand Mean				99.9	98.8	99.9
Levene's F				0.00	1.58	0.937
Levene's Prob(F)				0.00*	0.147	0.517

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed SETFA	W Weed SETPU	W Weed ECHSS
Pest Type	Setaria faberi	Setaria helvola	Echinochloa sp.
Pest Code	Giant foxtail	yellow foxtail	Barnyardgrass
Pest Scientific Name	C ZEAMX	C ZEAMX	C ZEAMX
Pest Name	BCOR	BCOR	BCOR
Crop Type, Code	Zea mays	Zea mays	Zea mays
BBCH Scale	Corn	Corn	Corn
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019
SE Group No.	7	8	9
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1	A1
Days After First/Last Applic.	27 6	27 6	27 6
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	4	5	6
Rate			
Rate Unit			
Appl Code			
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	-3.7325*	-3.1858*	-5.8299*
Kurtosis	12.4486*	11.5462*	35.4814*
Replicate F	3.667	5.402	1.803
Replicate Prob(F)	0.0220	0.0039	0.1659
Treatment F	1.000	1.424	1.000
Treatment Prob(F)	0.4671	0.2088	0.4671

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jun-25-2019	Jun-25-2019		Jun-25-2019
SE Group No.	11	11		11
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jun-20-2019	Oct-15-2019		Jun-20-2019
Rating Timing	A2	A2		A2
Days After First/Last Applic.	35 7	35 7		35 7
Plant-Eval Interval	35 DP-1	35 DP-1		35 DP-1
Days After Emergence	25 DE-1	25 DE-1		25 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
1 UNTREATED CHECK			0	0
2 RESICORE	2.75 qt/a	A	0 c	91 a
ENLIST DUO	56 fl oz/a	C		98 a
N-PAK AMS	2.5 % v/v	C		
3 RESICORE	2.75 qt/a	A	0 c	0 d
REALM Q @ 4 OZ/A		C		92 abc
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type				W	Weed	
Pest Code					AMBTR	
Pest Scientific Name					Ambrosia trifida	
Pest Name					Giant ragweed	
Crop Type, Code		C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale		BCOR	BCOR		BCOR	
Crop Scientific Name		Zea mays	Zea mays		Zea mays	
Crop Name		Corn	Corn		Corn	
Crop Variety		PIONEER 1003793-47	DKC62-52RIB			
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date		Jun-25-2019	Jun-25-2019		Jun-25-2019	
SE Group No.		11	11		11	
Part Rated		PLOT -	PLOT -		PLOT -	
Rating Type		PHYGEN	PHYGEN		CONTRO	
Rating Unit		%	%		%	
Sample Size						
Number of Subsamples		1	1		1	
Assessed By		D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019	Oct-15-2019		Jun-20-2019	
Rating Timing		A2	A2		A2	
Days After First/Last Applic.		35 7	35 7		35 7	
Plant-Eval Interval		35 DP-1	35 DP-1		35 DP-1	
Days After Emergence		25 DE-1	25 DE-1		25 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	
4 SURESTART II	2.5 pt/a	A	1 bc	85 b	96 ab	
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
5 SURESTART II	2.5 pt/a	A	4 abc	4 cd	82 ef	
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Location: TPAC		Trial
Trial ID: 19S-TPAC-CORN-05-2		Investigator (Creator): Dr. Bill Johnson		Study Director: Dustin Johnson & Marcelo Zimmer		
Protocol ID: 19S-TPAC-CORN-05		Sponsor Contact: Coretva & Syngenta				
Project ID: Showcase						
Pest Type						W Weed
Pest Code						AMBTR
Pest Scientific Name						Ambrosia trifida
Pest Name						Giant ragweed
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale		BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name		Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name		Corn	Corn	Corn	Corn	Corn
Crop Variety		PIONEER 1003793-47	DKC62-52RIB			
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date		Jun-25-2019	Jun-25-2019			Jun-25-2019
SE Group No.		11	11			11
Part Rated		PLOT -	PLOT -			PLOT -
Rating Type		PHYGEN	PHYGEN			CONTRO
Rating Unit		%	%			%
Sample Size						
Number of Subsamples		1	1			1
Assessed By		D. JOHNSON	D. JOHNSON			D. JOHNSON
Data Entry Date		Jun-20-2019	Oct-15-2019			Jun-20-2019
Rating Timing		A2	A2			A2
Days After First/Last Applic.		35 7	35 7			35 7
Plant-Eval Interval		35 DP-1	35 DP-1			35 DP-1
Days After Emergence		25 DE-1	25 DE-1			25 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	
6 SURESTART II	2.5 pt/a	A	5 ab	3 cd	80 f	
ATRAZINE	3 pt/a	A				
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				
7 RESICORE	2.75 qt/a	A	2 bc		91 a-d	
ASSURE II	5 fl oz/a	C				
COC	1 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jun-25-2019	Jun-25-2019		Jun-25-2019
SE Group No.	11	11		11
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jun-20-2019	Oct-15-2019		Jun-20-2019
Rating Timing	A2	A2		A2
Days After First/Last Applic.	35 7	35 7		35 7
Plant-Eval Interval	35 DP-1	35 DP-1		35 DP-1
Days After Emergence	25 DE-1	25 DE-1		25 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
8 RESICORE	2.75 qt/a	A		90 b-e
SELECT MAX	12 fl oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
9 ACURON	3 qt/a	A	0 c	83 def
10 ACURON	1.5 qt/a	A	6 ab	96 ab
HALEX GT	3.6 pt/a	C		
AATREX	1 pt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB			
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date	Jun-25-2019	Jun-25-2019		Jun-25-2019	
SE Group No.	11	11		11	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-20-2019	Oct-15-2019		Jun-20-2019	
Rating Timing	A2	A2		A2	
Days After First/Last Applic.	35 7	35 7		35 7	
Plant-Eval Interval	35 DP-1	35 DP-1		35 DP-1	
Days After Emergence	25 DE-1	25 DE-1		25 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
11 BICEP II MAGNUM	1.5 qt/a	A	7 a	8 c	87 c-f
HALEX GT	3.6 pt/a	C			
AATREX	1 pt/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
N-PAK AMS	2.5 % v/v	C			
12 HALEX GT	4 pt/a	B	0 c	0 d	96 ab
AATREX	1 pt/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC	
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
SE Group No.	11	11	11
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Oct-15-2019	Jun-20-2019
Rating Timing	A2	A2	A2
Days After First/Last Applic.	35 7	35 7	35 7
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 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
13 BICEP II MAGNUM	1.5 qt/a	A	6 ab
HALEX GT	3.6 pt/a	C	5 cd
STATUS	3 oz/a	C	95 abc
ACTIVATOR 90 NIS	0.25 % v/v	C	
N-PAK AMS	2.5 % v/v	C	
LSD P=.05	4.8	6.1	8.6
Standard Deviation	3.4	4.2	6.0
CV	120.05	20.82	6.59
Grand Mean	2.8	20.3	90.4
Levene's F	2.264	1.519	4.481
Levene's Prob(F)	0.038*	0.188	0.001*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC		Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
SE Group No.	11	11	11
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Oct-15-2019	Jun-20-2019
Rating Timing	A2	A2	A2
Days After First/Last Applic.	35 7	35 7	35 7
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 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
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	1.2845*	1.4996*	-1.3774*
Kurtosis	0.7432	0.3723	1.1074
Replicate F	1.062	0.561	0.596
Replicate Prob(F)	0.3798	0.6457	0.6224
Treatment F	2.818	290.211	4.441
Treatment Prob(F)	0.0137	0.0001	0.0004

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019			
SE Group No.	12	13	14			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A2	A2	A2			
Days After First/Last Applic.	35 7	35 7	35 7			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	25 DE-1	25 DE-1	25 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
1 UNTREATED CHECK				0	0	0
2 RESICORE	2.75 qt/a	A		100 a	100 a	100 a
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
3 RESICORE	2.75 qt/a	A		100 a	100 a	100 a
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	SETPU	ECHSS	
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.	
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019	
SE Group No.	12	13	14	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A2	A2	A2	
Days After First/Last Applic.	35 7	35 7	35 7	
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	10	11
4 SURESTART II	2.5 pt/a	A	100 a	100 a
ENLIST DUO	56 fl oz/a	C		
N-PAK AMS	2.5 % v/v	C		
5 SURESTART II	2.5 pt/a	A	100 a	100 a
REALM Q @ 4 OZ/A		C		
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019			
SE Group No.	12	13	14			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A2	A2	A2			
Days After First/Last Applic.	35 7	35 7	35 7			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	25 DE-1	25 DE-1	25 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
6 SURESTART II	2.5 pt/a	A		100 a	100 a	100 a
ATRAZINE	3 pt/a	A				
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				
7 RESICORE	2.75 qt/a	A		100 a	100 a	100 a
ASSURE II	5 fl oz/a	C				
COC	1 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed SETFA	W Weed SETPU	W Weed ECHSS
Pest Type	Setaria faberi	Setaria helvola	Echinochloa sp.
Pest Code	Giant foxtail	yellow foxtail	Barnyardgrass
Pest Scientific Name	C ZEAMX	C ZEAMX	C ZEAMX
Pest Name	BCOR	BCOR	BCOR
Crop Type, Code	Zea mays	Zea mays	Zea mays
BBCH Scale	Corn	Corn	Corn
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
SE Group No.	12	13	14
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2	A2
Days After First/Last Applic.	35 7	35 7	35 7
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate Unit Appl Code	10	11
8 RESICORE	2.75 qt/a A	100 a	100 a
SELECT MAX	12 fl oz/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
9 ACURON	3 qt/a A	100 a	100 a
10 ACURON	1.5 qt/a A	100 a	100 a
HALEX GT	3.6 pt/a C		
AATREX	1 pt/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019			
SE Group No.	12	13	14			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A2	A2	A2			
Days After First/Last Applic.	35 7	35 7	35 7			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	25 DE-1	25 DE-1	25 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
11 BICEP II MAGNUM	1.5 qt/a	A		100 a	100 a	100 a
HALEX GT	3.6 pt/a	C				
AATREX	1 pt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
12 HALEX GT	4 pt/a	B		100 a	100 a	100 a
AATREX	1 pt/a	B				
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	SETPU	ECHSS	
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.	
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019	
SE Group No.	12	13	14	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A2	A2	A2	
Days After First/Last Applic.	35 7	35 7	35 7	
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	10	11
			12	
13 BICEP II MAGNUM	1.5 qt/a	A	100 a	100 a
HALEX GT	3.6 pt/a	C		
STATUS	3 oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		
LSD P=.05	.	.	.	.
Standard Deviation	0.0	0.0	0.0	0.0
CV	0.0	0.0	0.0	0.0
Grand Mean	100.0	100.0	100.0	100.0
Levene's F	0.00	0.00	0.00	0.00
Levene's Prob(F)	0.00*	0.00*	0.00*	0.00*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
		Sponsor Contact: Coretva & Syngenta		
Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	SETPU	ECHSS	
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.	
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jun-25-2019	Jun-25-2019	Jun-25-2019	
SE Group No.	12	13	14	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A2	A2	A2	
Days After First/Last Applic.	35 7	35 7	35 7	
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	10	11
Rank X2			.	.
P(Rank X2)			.	.
Skewness			.	.
Kurtosis			.	.
Replicate F	0.000	0.000	0.000	
Replicate Prob(F)	1.0000	1.0000	1.0000	
Treatment F	0.000	0.000	0.000	
Treatment Prob(F)	1.0000	1.0000	1.0000	

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-2-2019	Jul-2-2019		Jul-2-2019
SE Group No.	15	15		15
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019
Rating Timing	A3	A3		A3
Days After First/Last Applic.	42 14	42 14		42 14
Plant-Eval Interval	42 DP-1	42 DP-1		42 DP-1
Days After Emergence	32 DE-1	32 DE-1		32 DE-1
ARM Action Codes	P	P		P
Number of Decimals	0	0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
1 UNTREATED CHECK			0	0
2 RESICORE	2.75 qt/a	A	6 a	45 a
ENLIST DUO	56 fl oz/a	C		
N-PAK AMS	2.5 % v/v	C		
3 RESICORE	2.75 qt/a	A	0 a	0 b
REALM Q @ 4 OZ/A		C		
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-2-2019	Jul-2-2019		Jul-2-2019
SE Group No.	15	15		15
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019
Rating Timing	A3	A3		A3
Days After First/Last Applic.	42 14	42 14		42 14
Plant-Eval Interval	42 DP-1	42 DP-1		42 DP-1
Days After Emergence	32 DE-1	32 DE-1		32 DE-1
ARM Action Codes	P	P		P
Number of Decimals	0	0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
4 SURESTART II	2.5 pt/a	A	11 a	38 a
ENLIST DUO	56 fl oz/a	C		
N-PAK AMS	2.5 % v/v	C		
5 SURESTART II	2.5 pt/a	A	6 a	6 b
REALM Q @ 4 OZ/A		C		
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		89 bc

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB			
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date	Jul-2-2019	Jul-2-2019		Jul-2-2019	
SE Group No.	15	15		15	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019	
Rating Timing	A3	A3		A3	
Days After First/Last Applic.	42 14	42 14		42 14	
Plant-Eval Interval	42 DP-1	42 DP-1		42 DP-1	
Days After Emergence	32 DE-1	32 DE-1		32 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	15
6 SURESTART II	2.5 pt/a	A	6 a	6 b	87 cd
ATRAZINE	3 pt/a	A			
REALM Q @ 4 OZ/A		C			
MESOTRIONE	2.5 oz/a	C			
RESOLVE	1.2 oz/a	C			
ISOXADIFEN-ETHYL	0.3 oz/a	C			
7 RESICORE	2.75 qt/a	A	3 a		84 cd
ASSURE II	5 fl oz/a	C			
COC	1 % v/v	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-2-2019	Jul-2-2019		Jul-2-2019
SE Group No.	15	15		15
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019
Rating Timing	A3	A3		A3
Days After First/Last Applic.	42 14	42 14		42 14
Plant-Eval Interval	42 DP-1	42 DP-1		42 DP-1
Days After Emergence	32 DE-1	32 DE-1		32 DE-1
ARM Action Codes	P	P		P
Number of Decimals	0	0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
8 RESICORE	2.75 qt/a	A		83 d
SELECT MAX	12 fl oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
9 ACURON	3 qt/a	A	1 a	13 b
10 ACURON	1.5 qt/a	A	1 a	1 b
HALEX GT	3.6 pt/a	C		
AATREX	1 pt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Location: TPAC		Trial
Trial ID: 19S-TPAC-CORN-05-2		Investigator (Creator): Dr. Bill Johnson		Study Director: Dustin Johnson & Marcelo Zimmer		
Protocol ID: 19S-TPAC-CORN-05		Sponsor Contact: Coretva & Syngenta		Project ID: Showcase		
Pest Type						W Weed
Pest Code						AMBTR
Pest Scientific Name						Ambrosia trifida
Pest Name						Giant ragweed
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale		BCOR	BCOR	BCOR		BCOR
Crop Scientific Name		Zea mays	Zea mays	Zea mays		Zea mays
Crop Name		Corn	Corn	Corn		Corn
Crop Variety		PIONEER 1003793-47	DKC62-52RIB			
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date		Jul-2-2019	Jul-2-2019			Jul-2-2019
SE Group No.		15	15			15
Part Rated		PLOT -	PLOT -			PLOT -
Rating Type		PHYGEN	PHYGEN			CONTRO
Rating Unit		%	%			%
Sample Size						
Number of Subsamples		1	1			1
Assessed By		D. JOHNSON	D. JOHNSON			D. JOHNSON
Data Entry Date		Jul-2-2019	Oct-15-2019			Jul-2-2019
Rating Timing		A3	A3			A3
Days After First/Last Applic.		42 14	42 14			42 14
Plant-Eval Interval		42 DP-1	42 DP-1			42 DP-1
Days After Emergence		32 DE-1	32 DE-1			32 DE-1
ARM Action Codes		P	P			P
Number of Decimals		0	0			0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	13	14	15	
11 BICEP II MAGNUM	1.5 qt/a	A	6 a	6 b	95 a	
HALEX GT	3.6 pt/a	C				
AATREX	1 pt/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
12 HALEX GT	4 pt/a	B	5 a	5 b	97 a	
AATREX	1 pt/a	B				
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC	
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019
SE Group No.	15	15	15
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019	Jul-2-2019
Rating Timing	A3	A3	A3
Days After First/Last Applic.	42 14	42 14	42 14
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13
13 BICEP II MAGNUM	1.5 qt/a	A	9 a
HALEX GT	3.6 pt/a	C	9 b
STATUS	3 oz/a	C	93 ab
ACTIVATOR 90 NIS	0.25 % v/v	C	
N-PAK AMS	2.5 % v/v	C	
LSD P=.05	8.1	17.8	5.5
Standard Deviation	5.6	12.3	3.8
CV	112.65	95.73	4.2
Grand Mean	5.0	12.8	90.9
Levene's F	1.591	1.294	1.16
Levene's Prob(F)	0.153	0.281	0.348

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC		Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019
SE Group No.	15	15	15
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019	Jul-2-2019
Rating Timing	A3	A3	A3
Days After First/Last Applic.	42 14	42 14	42 14
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13
			14
			15
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	0.7799*	1.4849*	-0.9549*
Kurtosis	-0.7127	0.9024	0.3326
Replicate F	1.375	0.800	2.122
Replicate Prob(F)	0.2695	0.5049	0.1162
Treatment F	1.576	6.374	14.737
Treatment Prob(F)	0.1621	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019			
SE Group No.	16	17	18			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A3	A3	A3			
Days After First/Last Applic.	42 14	42 14	42 14			
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1			
Days After Emergence	32 DE-1	32 DE-1	32 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		16	17	18
1 UNTREATED CHECK				0	0	0
2 RESICORE	2.75 qt/a	A		100 a	100 a	100 a
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
3 RESICORE	2.75 qt/a	A		100 a	100 a	100 a
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	SETFA	SETPU	ECHSS			
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.			
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019			
SE Group No.	16	17	18			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A3	A3	A3			
Days After First/Last Applic.	42 14	42 14	42 14			
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1			
Days After Emergence	32 DE-1	32 DE-1	32 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		16	17	18
4 SURESTART II	2.5 pt/a	A		100 a	100 a	100 a
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
5 SURESTART II	2.5 pt/a	A		100 a	100 a	100 a
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed	W Weed	W Weed
Pest Type	SETFA	SETPU	ECHSS
Pest Code	SETFA	SETPU	ECHSS
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety			
Description			
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019
SE Group No.	16	17	18
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3	A3
Days After First/Last Applic.	42 14	42 14	42 14
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate Unit	Appl Code	
			16 17 18
6 SURESTART II	2.5 pt/a	A	100 a
ATRAZINE	3 pt/a	A	100 a
REALM Q @ 4 OZ/A		C	100 a
MESOTRIONE	2.5 oz/a	C	
RESOLVE	1.2 oz/a	C	
ISOXADIFEN-ETHYL	0.3 oz/a	C	
7 RESICORE	2.75 qt/a	A	100 a
ASSURE II	5 fl oz/a	C	100 a
COC	1 % v/v	C	100 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	SETPU	ECHSS	
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.	
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019	
SE Group No.	16	17	18	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A3	A3	A3	
Days After First/Last Applic.	42 14	42 14	42 14	
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
8 RESICORE	2.75 qt/a	A	100 a	100 a
SELECT MAX	12 fl oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
9 ACURON	3 qt/a	A	100 a	100 a
10 ACURON	1.5 qt/a	A	100 a	100 a
HALEX GT	3.6 pt/a	C		
AATREX	1 pt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed	W Weed	W Weed
Pest Type	SETFA	SETPU	ECHSS
Pest Code	SETFA	SETPU	ECHSS
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety			
Description			
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019
SE Group No.	16	17	18
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3	A3
Days After First/Last Applic.	42 14	42 14	42 14
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	16	17	18
Rate			
Rate Unit			
Appl Code			
11 BICEP II MAGNUM	1.5 qt/a A	100 a	100 a
HALEX GT	3.6 pt/a C		
AATREX	1 pt/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		
12 HALEX GT	4 pt/a B	100 a	100 a
AATREX	1 pt/a B		
ACTIVATOR 90 NIS	0.25 % v/v 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed	W Weed	W Weed
Pest Type	SETFA	SETPU	ECHSS
Pest Code	SETFA	SETPU	ECHSS
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety			
Description			
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019
SE Group No.	16	17	18
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3	A3
Days After First/Last Applic.	42 14	42 14	42 14
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	16	17	18
Rate			
Rate Unit			
Appl Code			
13 BICEP II MAGNUM	1.5 qt/a A	100 a	100 a
HALEX GT	3.6 pt/a C		
STATUS	3 oz/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		
LSD P=.05	.	.	.
Standard Deviation	0.0	0.0	0.0
CV	0.0	0.0	0.0
Grand Mean	100.0	100.0	100.0
Levene's F	0.00	0.00	0.00
Levene's Prob(F)	0.00*	0.00*	0.00*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	SETPU	ECHSS	
Pest Scientific Name	Setaria faberi	Setaria helvola	Echinochloa sp.	
Pest Name	Giant foxtail	yellow foxtail	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jul-2-2019	Jul-2-2019	Jul-2-2019	
SE Group No.	16	17	18	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A3	A3	A3	
Days After First/Last Applic.	42 14	42 14	42 14	
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness	.	.	.	.
Kurtosis	.	.	.	.
Replicate F	0.000	0.000	0.000	
Replicate Prob(F)	1.0000	1.0000	1.0000	
Treatment F	0.000	0.000	0.000	
Treatment Prob(F)	1.0000	1.0000	1.0000	

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-15-2019	Jul-15-2019		Jul-15-2019
SE Group No.	19	19		19
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019
Rating Timing	A4	A4		A4
Days After First/Last Applic.	55 27	55 27		55 27
Plant-Eval Interval	55 DP-1	55 DP-1		55 DP-1
Days After Emergence	45 DE-1	45 DE-1		45 DE-1
ARM Action Codes	P	P		P
Number of Decimals	0	0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	19	20
1 UNTREATED CHECK			0	0
2 RESICORE	2.75 qt/a	A	1 a	33 a
ENLIST DUO	56 fl oz/a	C		100 a
N-PAK AMS	2.5 % v/v	C		
3 RESICORE	2.75 qt/a	A	0 a	0 b
REALM Q @ 4 OZ/A		C		99 ab
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB			
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date	Jul-15-2019	Jul-15-2019		Jul-15-2019	
SE Group No.	19	19		19	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019	
Rating Timing	A4	A4		A4	
Days After First/Last Applic.	55 27	55 27		55 27	
Plant-Eval Interval	55 DP-1	55 DP-1		55 DP-1	
Days After Emergence	45 DE-1	45 DE-1		45 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	21
4 SURESTART II	2.5 pt/a	A	1 a	24 a	97 ab
ENLIST DUO	56 fl oz/a	C			
N-PAK AMS	2.5 % v/v	C			
5 SURESTART II	2.5 pt/a	A	3 a	3 b	90 bc
REALM Q @ 4 OZ/A		C			
MESOTRIONE	2.5 oz/a	C			
RESOLVE	1.2 oz/a	C			
ISOXADIFEN-ETHYL	0.3 oz/a	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB			
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date	Jul-15-2019	Jul-15-2019		Jul-15-2019	
SE Group No.	19	19		19	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019	
Rating Timing	A4	A4		A4	
Days After First/Last Applic.	55 27	55 27		55 27	
Plant-Eval Interval	55 DP-1	55 DP-1		55 DP-1	
Days After Emergence	45 DE-1	45 DE-1		45 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	21
6 SURESTART II	2.5 pt/a	A	3 a	3 b	87 c
ATRAZINE	3 pt/a	A			
REALM Q @ 4 OZ/A		C			
MESOTRIONE	2.5 oz/a	C			
RESOLVE	1.2 oz/a	C			
ISOXADIFEN-ETHYL	0.3 oz/a	C			
7 RESICORE	2.75 qt/a	A	0 a		74 d
ASSURE II	5 fl oz/a	C			
COC	1 % v/v	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX
BBCH Scale	BCOR	BCOR		BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays
Crop Name	Corn	Corn		Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-15-2019	Jul-15-2019		Jul-15-2019
SE Group No.	19	19		19
Part Rated	PLOT -	PLOT -		PLOT -
Rating Type	PHYGEN	PHYGEN		CONTRO
Rating Unit	%	%		%
Sample Size				
Number of Subsamples	1	1		1
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019
Rating Timing	A4	A4		A4
Days After First/Last Applic.	55 27	55 27		55 27
Plant-Eval Interval	55 DP-1	55 DP-1		55 DP-1
Days After Emergence	45 DE-1	45 DE-1		45 DE-1
ARM Action Codes	P	P		P
Number of Decimals	0	0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	19	20
8 RESICORE	2.75 qt/a	A		58 e
SELECT MAX	12 fl oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
9 ACURON	3 qt/a	A	0 a	69 d
10 ACURON	1.5 qt/a	A	0 a	98 ab
HALEX GT	3.6 pt/a	C		
AATREX	1 pt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB			
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked			
Rating Date	Jul-15-2019	Jul-15-2019		Jul-15-2019	
SE Group No.	19	19		19	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jul-2-2019	Oct-15-2019		Jul-2-2019	
Rating Timing	A4	A4		A4	
Days After First/Last Applic.	55 27	55 27		55 27	
Plant-Eval Interval	55 DP-1	55 DP-1		55 DP-1	
Days After Emergence	45 DE-1	45 DE-1		45 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	21
11 BICEP II MAGNUM	1.5 qt/a	A	1 a	1 b	98 ab
HALEX GT	3.6 pt/a	C			
AATREX	1 pt/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
N-PAK AMS	2.5 % v/v	C			
12 HALEX GT	4 pt/a	B	2 a	2 b	98 ab
AATREX	1 pt/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC	
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jul-15-2019	Jul-15-2019	Jul-15-2019
SE Group No.	19	19	19
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019	Jul-2-2019
Rating Timing	A4	A4	A4
Days After First/Last Applic.	55 27	55 27	55 27
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			19
			20
			21
13 BICEP II MAGNUM	1.5 qt/a	A	3 a
HALEX GT	3.6 pt/a	C	3 b
STATUS	3 oz/a	C	96 ab
ACTIVATOR 90 NIS	0.25 % v/v	C	
N-PAK AMS	2.5 % v/v	C	
LSD P=.05	3.4	9.3	9.1
Standard Deviation	2.4	6.4	6.3
CV	201.42	95.82	7.14
Grand Mean	1.2	6.7	88.5
Levene's F	1.065	4.356	1.195
Levene's Prob(F)	0.415	0.001*	0.325

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC		Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			W Weed
Pest Code			AMBTR
Pest Scientific Name			Ambrosia trifida
Pest Name			Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jul-15-2019	Jul-15-2019	Jul-15-2019
SE Group No.	19	19	19
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-2-2019	Oct-15-2019	Jul-2-2019
Rating Timing	A4	A4	A4
Days After First/Last Applic.	55 27	55 27	55 27
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	45 DE-1	45 DE-1	45 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			19
			20
			21
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	1.9558*	1.9911*	-1.4056*
Kurtosis	3.3458*	2.8491*	1.3118
Replicate F	1.647	0.405	1.321
Replicate Prob(F)	0.1994	0.7508	0.2843
Treatment F	0.786	13.016	19.779
Treatment Prob(F)	0.6418	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed					
Pest Code	SETPU					
Pest Scientific Name	Setaria helvola					
Pest Name	yellow foxtail					
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn		
Crop Variety		PIONEER 1003793-47		DKC62-52RIB		
Description		ENLIST 2,4-D/RR/LL		RR/LL Stacked		
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019	Jul-30-2019		
SE Group No.	21	22	22	22		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	PHYGEN	PHYGEN	PHYGEN		
Rating Unit	%	%	%	%		
Sample Size						
Number of Subsamples	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jul-2-2019	Jul-2-2019	Oct-15-2019		
Rating Timing	A4	A5	A5	A5		
Days After First/Last Applic.	55 27	70 42	70 42	70 42		
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1	70 DP-1		
Days After Emergence	45 DE-1	60 DE-1	60 DE-1	60 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	22	23	24	
1 UNTREATED CHECK			0	0	0	
2 RESICORE	2.75 qt/a	A	100 a	0 a	30 a	
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
3 RESICORE	2.75 qt/a	A	100 a	0 a	0 c	
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type	W Weed			
Pest Code	SETPU			
Pest Scientific Name	Setaria helvola			
Pest Name	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety		PIONEER 1003793-47	DKC62-52RIB	
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019	
SE Group No.	21	22	22	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jul-2-2019	Oct-15-2019	
Rating Timing	A4	A5	A5	
Days After First/Last Applic.	55 27	70 42	70 42	
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1	
Days After Emergence	45 DE-1	60 DE-1	60 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	22	23
4 SURESTART II	2.5 pt/a	A	99 a	0 a
ENLIST DUO	56 fl oz/a	C		15 b
N-PAK AMS	2.5 % v/v	C		
5 SURESTART II	2.5 pt/a	A	100 a	0 a
REALM Q @ 4 OZ/A		C		0 c
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed					
Pest Code	SETPU					
Pest Scientific Name	Setaria helvola					
Pest Name	yellow foxtail					
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Crop Variety		PIONEER 1003793-47		DKC62-52RIB		
Description		ENLIST 2,4-D/RR/LL		RR/LL Stacked		
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019	Jul-30-2019	Jul-30-2019	Jul-30-2019
SE Group No.	21	22	22	22	22	22
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%	%
Sample Size						
Number of Subsamples	1	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-2-2019	Jul-2-2019	Oct-15-2019	Oct-15-2019	Oct-15-2019
Rating Timing	A4	A5	A5	A5	A5	A5
Days After First/Last Applic.	55 27	70 42	70 42	70 42	70 42	70 42
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	45 DE-1	60 DE-1	60 DE-1	60 DE-1	60 DE-1	60 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	22	23	24	
6 SURESTART II	2.5 pt/a	A	100 a	0 a	0 c	
ATRAZINE	3 pt/a	A				
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				
7 RESICORE	2.75 qt/a	A	99 a	0 a		
ASSURE II	5 fl oz/a	C				
COC	1 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type	W Weed				
Pest Code	SETPU				
Pest Scientific Name	Setaria helvola				
Pest Name	yellow foxtail				
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Crop Variety		PIONEER 1003793-47	DKC62-52RIB		
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019		
SE Group No.	21	22	22		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	PHYGEN	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jul-2-2019	Oct-15-2019		
Rating Timing	A4	A5	A5		
Days After First/Last Applic.	55 27	70 42	70 42		
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1		
Days After Emergence	45 DE-1	60 DE-1	60 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	22	23	24
8 RESICORE	2.75 qt/a	A	100 a		
SELECT MAX	12 fl oz/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
9 ACURON	3 qt/a	A	100 a	0 a	0 c
10 ACURON	1.5 qt/a	A	100 a	0 a	0 c
HALEX GT	3.6 pt/a	C			
AATREX	1 pt/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
N-PAK AMS	2.5 % v/v	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type	W Weed				
Pest Code	SETPU				
Pest Scientific Name	Setaria helvola				
Pest Name	yellow foxtail				
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Crop Variety		PIONEER 1003793-47	DKC62-52RIB		
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked		
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019		
SE Group No.	21	22	22		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	PHYGEN	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jul-2-2019	Oct-15-2019		
Rating Timing	A4	A5	A5		
Days After First/Last Applic.	55 27	70 42	70 42		
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1		
Days After Emergence	45 DE-1	60 DE-1	60 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	22	23	24
11 BICEP II MAGNUM	1.5 qt/a A		100 a	0 a	0 c
HALEX GT	3.6 pt/a C				
AATREX	1 pt/a C				
ACTIVATOR 90 NIS	0.25 % v/v C				
N-PAK AMS	2.5 % v/v C				
12 HALEX GT	4 pt/a B		100 a	0 a	0 c
AATREX	1 pt/a B				
ACTIVATOR 90 NIS	0.25 % v/v 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type	W Weed			
Pest Code	SETPU			
Pest Scientific Name	Setaria helvola			
Pest Name	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety		PIONEER 1003793-47	DKC62-52RIB	
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked	
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019	
SE Group No.	21	22	22	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jul-2-2019	Oct-15-2019	
Rating Timing	A4	A5	A5	
Days After First/Last Applic.	55 27	70 42	70 42	
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1	
Days After Emergence	45 DE-1	60 DE-1	60 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	22	23
13 BICEP II MAGNUM	1.5 qt/a	A	100 a	0 a
HALEX GT	3.6 pt/a	C		
STATUS	3 oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		
LSD P=.05	1.0			6.8
Standard Deviation	0.7	0.0		4.7
CV	0.71	0.0		103.88
Grand Mean	99.8	0.0		4.5
Levene's F	0.741	0.00		6.833
Levene's Prob(F)	0.693	0.00*		0.001*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC	
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Coretva & Syngenta			
Pest Type	W Weed		
Pest Code	SETPU		
Pest Scientific Name	Setaria helvola		
Pest Name	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety		PIONEER 1003793-47	DKC62-52RIB
Description		ENLIST 2,4-D/RR/LL	RR/LL Stacked
Rating Date	Jul-15-2019	Jul-30-2019	Jul-30-2019
SE Group No.	21	22	22
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	PHYGEN
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-2-2019	Oct-15-2019
Rating Timing	A4	A5	A5
Days After First/Last Applic.	55 27	70 42	70 42
Plant-Eval Interval	55 DP-1	70 DP-1	70 DP-1
Days After Emergence	45 DE-1	60 DE-1	60 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	-3.3405*	.	2.2395*
Kurtosis	10.0713*	.	3.8043*
Replicate F	1.806	0.000	1.678
Replicate Prob(F)	0.1653	1.0000	0.1952
Treatment F	0.791	0.000	18.763
Treatment Prob(F)	0.6473	1.0000	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019			
SE Group No.	22	16	17			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A5	A5	A5			
Days After First/Last Applic.	70 42	70 42	70 42			
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1			
Days After Emergence	60 DE-1	60 DE-1	60 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		25	26	27
1 UNTREATED CHECK				0	0	0
2 RESICORE	2.75 qt/a	A		100 a	100 a	99 a
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
3 RESICORE	2.75 qt/a	A		98 a	100 a	100 a
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019			
SE Group No.	22	16	17			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A5	A5	A5			
Days After First/Last Applic.	70 42	70 42	70 42			
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1			
Days After Emergence	60 DE-1	60 DE-1	60 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		25	26	27
4 SURESTART II	2.5 pt/a	A		96 a	97 b	96 b
ENLIST DUO	56 fl oz/a	C				
N-PAK AMS	2.5 % v/v	C				
5 SURESTART II	2.5 pt/a	A		90 a	100 a	100 a
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019			
SE Group No.	22	16	17			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A5	A5	A5			
Days After First/Last Applic.	70 42	70 42	70 42			
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1			
Days After Emergence	60 DE-1	60 DE-1	60 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		25	26	27
6 SURESTART II	2.5 pt/a	A		85 a	100 a	100 a
ATRAZINE	3 pt/a	A				
REALM Q @ 4 OZ/A		C				
MESOTRIONE	2.5 oz/a	C				
RESOLVE	1.2 oz/a	C				
ISOXADIFEN-ETHYL	0.3 oz/a	C				
7 RESICORE	2.75 qt/a	A		58 b	99 a	99 a
ASSURE II	5 fl oz/a	C				
COC	1 % v/v	C				

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed	W Weed	W Weed
Pest Type	AMBTR	SETFA	SETPU
Pest Code	AMBTR	SETFA	SETPU
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety			
Description			
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019
SE Group No.	22	16	17
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A5	A5	A5
Days After First/Last Applic.	70 42	70 42	70 42
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	60 DE-1	60 DE-1	60 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	25	26	27
Rate			
Rate Unit			
Appl Code			
8 RESICORE	33 c	100 a	100 a
SELECT MAX			
ACTIVATOR 90 NIS			
9 ACURON	64 b	100 a	100 a
10 ACURON	98 a	100 a	100 a
HALEX GT			
AATREX			
ACTIVATOR 90 NIS			
N-PAK AMS			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	W Weed AMBTR	W Weed SETFA	W Weed SETPU
Pest Type	Ambrosia trifida	Setaria faberi	Setaria helvola
Pest Code	Giant ragweed	Giant foxtail	yellow foxtail
Pest Scientific Name	C ZEAMX	C ZEAMX	C ZEAMX
Pest Name	BCOR	BCOR	BCOR
Crop Type, Code	Zea mays	Zea mays	Zea mays
BBCH Scale	Corn	Corn	Corn
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019
SE Group No.	22	16	17
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019
Rating Timing	A5	A5	A5
Days After First/Last Applic.	70 42	70 42	70 42
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	60 DE-1	60 DE-1	60 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	25	26	27
Rate			
Rate Unit			
Appl Code			
11 BICEP II MAGNUM	1.5 qt/a A	100 a	100 a
HALEX GT	3.6 pt/a C		
AATREX	1 pt/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		
12 HALEX GT	4 pt/a B	99 a	99 a
AATREX	1 pt/a B		
ACTIVATOR 90 NIS	0.25 % v/v 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial		
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson				
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Crop Variety						
Description						
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019			
SE Group No.	22	16	17			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019			
Rating Timing	A5	A5	A5			
Days After First/Last Applic.	70 42	70 42	70 42			
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1			
Days After Emergence	60 DE-1	60 DE-1	60 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		25	26	27
13 BICEP II MAGNUM	1.5 qt/a	A		96 a	100 a	100 a
HALEX GT	3.6 pt/a	C				
STATUS	3 oz/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
N-PAK AMS	2.5 % v/v	C				
LSD P=.05				14.7	1.6	1.5
Standard Deviation				10.2	1.1	1.0
CV				12.09	1.13	1.04
Grand Mean				84.4	99.5	99.3
Levene's F				1.717	2.46	0.747
Levene's Prob(F)				0.109	0.021*	0.688

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	SETFA	SETPU	
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola	
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety				
Description				
Rating Date	Jul-30-2019	Jul-30-2019	Jul-30-2019	
SE Group No.	22	16	17	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jul-2-2019	Jun-20-2019	Jun-20-2019	
Rating Timing	A5	A5	A5	
Days After First/Last Applic.	70 42	70 42	70 42	
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	
Days After Emergence	60 DE-1	60 DE-1	60 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	25	26
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness	-1.6386*	-2.8193*	-2.01*	
Kurtosis	1.6991*	7.2538*	3.0852*	
Replicate F	0.655	0.655	3.213	
Replicate Prob(F)	0.5856	0.5857	0.0354	
Treatment F	17.706	2.536	4.645	
Treatment Prob(F)	0.0001	0.0191	0.0003	

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	
Pest Code	ECHSS	
Pest Scientific Name	Echinochloa sp.	
Pest Name	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety	PIONEER 1003793-47	
Description	ENLIST 2,4-D/RR/LL	
Rating Date	Jul-30-2019	Aug-13-2019
SE Group No.	18	23
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Jun-20-2019	Jul-2-2019
Rating Timing	A5	A6
Days After First/Last Applic.	70 42	84 56
Plant-Eval Interval	70 DP-1	84 DP-1
Days After Emergence	60 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	28	29
1 UNTREATED CHECK	0	0
2 RESICORE	2.75 qt/a A	100 a
ENLIST DUO	56 fl oz/a C	0 a
N-PAK AMS	2.5 % v/v C	
3 RESICORE	2.75 qt/a A	100 a
REALM Q @ 4 OZ/A	C	0 a
MESOTRIONE	2.5 oz/a C	
RESOLVE	1.2 oz/a C	
ISOXADIFEN-ETHYL	0.3 oz/a C	

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	
Pest Code	ECHSS	
Pest Scientific Name	Echinochloa sp.	
Pest Name	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		PIONEER 1003793-47
Description		ENLIST 2,4-D/RR/LL
Rating Date	Jul-30-2019	Aug-13-2019
SE Group No.	18	23
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Jun-20-2019	Jul-2-2019
Rating Timing	A5	A6
Days After First/Last Applic.	70 42	84 56
Plant-Eval Interval	70 DP-1	84 DP-1
Days After Emergence	60 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	28	29
4 SURESTART II	2.5 pt/a	A
ENLIST DUO	56 fl oz/a	C
N-PAK AMS	2.5 % v/v	C
5 SURESTART II	2.5 pt/a	A
REALM Q @ 4 OZ/A		C
MESOTRIONE	2.5 oz/a	C
RESOLVE	1.2 oz/a	C
ISOXADIFEN-ETHYL	0.3 oz/a	C

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed		
Pest Code	ECHSS		
Pest Scientific Name	Echinochloa sp.		
Pest Name	Barnyardgrass		
Crop Type, Code	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Crop Variety		PIONEER 1003793-47	
Description		ENLIST 2,4-D/RR/LL	
Rating Date	Jul-30-2019	Aug-13-2019	
SE Group No.	18	23	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	J. HAARMANN	
Data Entry Date	Jun-20-2019	Jul-2-2019	
Rating Timing	A5	A6	
Days After First/Last Applic.	70 42	84 56	
Plant-Eval Interval	70 DP-1	84 DP-1	
Days After Emergence	60 DE-1	74 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			28
			29
6 SURESTART II	2.5 pt/a	A	100 a
ATRAZINE	3 pt/a	A	
REALM Q @ 4 OZ/A		C	0 a
MESOTRIONE	2.5 oz/a	C	
RESOLVE	1.2 oz/a	C	
ISOXADIFEN-ETHYL	0.3 oz/a	C	
7 RESICORE	2.75 qt/a	A	100 a
ASSURE II	5 fl oz/a	C	
COC	1 % v/v	C	0 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	
Pest Code	ECHSS	
Pest Scientific Name	Echinochloa sp.	
Pest Name	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		PIONEER 1003793-47
Description		ENLIST 2,4-D/RR/LL
Rating Date	Jul-30-2019	Aug-13-2019
SE Group No.	18	23
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Jun-20-2019	Jul-2-2019
Rating Timing	A5	A6
Days After First/Last Applic.	70 42	84 56
Plant-Eval Interval	70 DP-1	84 DP-1
Days After Emergence	60 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		28
		29
8 RESICORE	2.75 qt/a	A
SELECT MAX	12 fl oz/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
9 ACURON	3 qt/a	A
		100 a
		0 a
10 ACURON	1.5 qt/a	A
HALEX GT	3.6 pt/a	C
AATREX	1 pt/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
N-PAK AMS	2.5 % v/v	C
		100 a
		0 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed		
Pest Code	ECHSS		
Pest Scientific Name	Echinochloa sp.		
Pest Name	Barnyardgrass		
Crop Type, Code	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Crop Variety		PIONEER 1003793-47	
Description		ENLIST 2,4-D/RR/LL	
Rating Date	Jul-30-2019	Aug-13-2019	
SE Group No.	18	23	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	J. HAARMANN	
Data Entry Date	Jun-20-2019	Jul-2-2019	
Rating Timing	A5	A6	
Days After First/Last Applic.	70 42	84 56	
Plant-Eval Interval	70 DP-1	84 DP-1	
Days After Emergence	60 DE-1	74 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			28
			29
11 BICEP II MAGNUM	1.5 qt/a	A	100 a
HALEX GT	3.6 pt/a	C	
AATREX	1 pt/a	C	0 a
ACTIVATOR 90 NIS	0.25 % v/v	C	
N-PAK AMS	2.5 % v/v	C	
12 HALEX GT	4 pt/a	B	100 a
AATREX	1 pt/a	B	
ACTIVATOR 90 NIS	0.25 % v/v	B	0 a
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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	
Pest Code	ECHSS	
Pest Scientific Name	Echinochloa sp.	
Pest Name	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		PIONEER 1003793-47
Description		ENLIST 2,4-D/RR/LL
Rating Date	Jul-30-2019	Aug-13-2019
SE Group No.	18	23
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Jun-20-2019	Jul-2-2019
Rating Timing	A5	A6
Days After First/Last Applic.	70 42	84 56
Plant-Eval Interval	70 DP-1	84 DP-1
Days After Emergence	60 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	28 29
13 BICEP II MAGNUM	1.5 qt/a A	100 a 0 a
HALEX GT	3.6 pt/a C	
STATUS	3 oz/a C	
ACTIVATOR 90 NIS	0.25 % v/v C	
N-PAK AMS	2.5 % v/v C	
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	100.0	0.0
Levene's F	0.00	0.00
Levene's Prob(F)	0.00*	0.00*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	
Pest Code	ECHSS	
Pest Scientific Name	Echinochloa sp.	
Pest Name	Barnyardgrass	
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety	PIONEER 1003793-47	
Description	ENLIST 2,4-D/RR/LL	
Rating Date	Jul-30-2019	Aug-13-2019
SE Group No.	18	23
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Jun-20-2019	Jul-2-2019
Rating Timing	A5	A6
Days After First/Last Applic.	70 42	84 56
Plant-Eval Interval	70 DP-1	84 DP-1
Days After Emergence	60 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	28	29
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	.
Kurtosis	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	DKC62-52RIB				
Description	RR/LL Stacked				
Rating Date	Aug-13-2019	Aug-13-2019		Aug-13-2019	
SE Group No.	23	23		24	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	CONTRO		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	J. HAARMANN	J. HAARMANN		J. HAARMANN	
Data Entry Date	Oct-15-2019	Aug-13-2019		Aug-13-2019	
Rating Timing	A6	A6		A6	
Days After First/Last Applic.	84 56	84 56		84 56	
Plant-Eval Interval	84 DP-1	84 DP-1		84 DP-1	
Days After Emergence	74 DE-1	74 DE-1		74 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	30	31	32
1 UNTREATED CHECK			0	0	0
2 RESICORE	2.75 qt/a	A	25 a	100 a	100 a
ENLIST DUO	56 fl oz/a	C			
N-PAK AMS	2.5 % v/v	C			
3 RESICORE	2.75 qt/a	A	0 c	99 a	100 a
REALM Q @ 4 OZ/A		C			
MESOTRIONE	2.5 oz/a	C			
RESOLVE	1.2 oz/a	C			
ISOXADIFEN-ETHYL	0.3 oz/a	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	C ZEAMX BCOR Zea mays Corn DKC62-52RIB RR/LL Stacked	W Weed AMBTR Ambrosia trifida Giant ragweed C ZEAMX BCOR Zea mays Corn	W Weed SETFA Setaria faberi Giant foxtail C ZEAMX BCOR Zea mays Corn
Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Rating Date	Aug-13-2019	Aug-13-2019	Aug-13-2019
SE Group No.	23	23	24
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-15-2019	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A6	A6
Days After First/Last Applic.	84 56	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1	74 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate Unit Appl Code		
		30	31
4 SURESTART II	2.5 pt/a A	15 b	98 a
ENLIST DUO	56 fl oz/a C		98 b
N-PAK AMS	2.5 % v/v C		
5 SURESTART II	2.5 pt/a A	0 c	92 a
REALM Q @ 4 OZ/A	C		100 a
MESOTRIONE	2.5 oz/a C		
RESOLVE	1.2 oz/a C		
ISOXADIFEN-ETHYL	0.3 oz/a C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety	DKC62-52RIB			
Description	RR/LL Stacked			
Rating Date	Aug-13-2019	Aug-13-2019	Aug-13-2019	
SE Group No.	23	23	24	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-15-2019	Aug-13-2019	Aug-13-2019	
Rating Timing	A6	A6	A6	
Days After First/Last Applic.	84 56	84 56	84 56	
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1	
Days After Emergence	74 DE-1	74 DE-1	74 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	30	31
6 SURESTART II	2.5 pt/a	A	0 c	91 a
ATRAZINE	3 pt/a	A		
REALM Q @ 4 OZ/A		C		
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		
7 RESICORE	2.75 qt/a	A		61 b
ASSURE II	5 fl oz/a	C		
COC	1 % v/v	C		100 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

		W Weed AMBTR	W Weed SETFA
Pest Type		Ambrosia trifida	Setaria faberi
Pest Code		Giant ragweed	Giant foxtail
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	DKC62-52RIB		
Description	RR/LL Stacked		
Rating Date	Aug-13-2019	Aug-13-2019	Aug-13-2019
SE Group No.	23	23	24
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-15-2019	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A6	A6
Days After First/Last Applic.	84 56	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1	74 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	30	31
8 RESICORE	2.75 qt/a A		18 c
SELECT MAX	12 fl oz/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		100 a
9 ACURON	3 qt/a A	0 c	69 b
10 ACURON	1.5 qt/a A	0 c	100 a
HALEX GT	3.6 pt/a C		
AATREX	1 pt/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

	C ZEAMX BCOR Zea mays Corn DKC62-52RIB RR/LL Stacked	W Weed AMBTR Ambrosia trifida Giant ragweed C ZEAMX BCOR Zea mays Corn	W Weed SETFA Setaria faberi Giant foxtail C ZEAMX BCOR Zea mays Corn
Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Rating Date	Aug-13-2019	Aug-13-2019	Aug-13-2019
SE Group No.	23	23	24
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-15-2019	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A6	A6
Days After First/Last Applic.	84 56	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1	74 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	30	31	32
Rate			
Rate Unit			
Appl Code			
11 BICEP II MAGNUM	1.5 qt/a A	99 a	100 a
HALEX GT	3.6 pt/a C		
AATREX	1 pt/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		
12 HALEX GT	4 pt/a B	97 a	100 a
AATREX	1 pt/a B		
ACTIVATOR 90 NIS	0.25 % v/v 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Crop Variety	DKC62-52RIB				
Description	RR/LL Stacked				
Rating Date	Aug-13-2019	Aug-13-2019		Aug-13-2019	
SE Group No.	23	23		24	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	CONTRO		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	J. HAARMANN	J. HAARMANN		J. HAARMANN	
Data Entry Date	Oct-15-2019	Aug-13-2019		Aug-13-2019	
Rating Timing	A6	A6		A6	
Days After First/Last Applic.	84 56	84 56		84 56	
Plant-Eval Interval	84 DP-1	84 DP-1		84 DP-1	
Days After Emergence	74 DE-1	74 DE-1		74 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	30	31	32
13 BICEP II MAGNUM	1.5 qt/a	A	0 c	98 a	100 a
HALEX GT	3.6 pt/a	C			
STATUS	3 oz/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
N-PAK AMS	2.5 % v/v	C			
LSD P=.05			3.2	12.5	1.3
Standard Deviation			2.2	8.7	0.9
CV			54.48	10.21	0.9
Grand Mean			4.0	84.9	99.8
Levene's F			21.316	3.288	25.091
Levene's Prob(F)			0.001*	0.003*	0.001*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial	
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type		W Weed	W Weed
Pest Code		AMBTR	SETFA
Pest Scientific Name		Ambrosia trifida	Setaria faberi
Pest Name		Giant ragweed	Giant foxtail
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	DKC62-52RIB		
Description	RR/LL Stacked		
Rating Date	Aug-13-2019	Aug-13-2019	Aug-13-2019
SE Group No.	23	23	24
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-15-2019	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A6	A6
Days After First/Last Applic.	84 56	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1	74 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	30	31
Rank X2		.	.
P(Rank X2)		.	.
Skewness		2.1784*	-2.0121*
Kurtosis		3.5656*	3.2199*
Replicate F		1.793	0.116
Replicate Prob(F)		0.1733	0.9503
Treatment F		64.357	32.557
Treatment Prob(F)		0.0001	0.0001
			0.623
			0.6054
			2.604
			0.0165

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		33
		34
1 UNTREATED CHECK		0
2 RESICORE	2.75 qt/a A	100 a
ENLIST DUO	56 fl oz/a C	100 a
N-PAK AMS	2.5 % v/v C	
3 RESICORE	2.75 qt/a A	100 ab
REALM Q @ 4 OZ/A	C	99 a
MESOTRIONE	2.5 oz/a C	
RESOLVE	1.2 oz/a C	
ISOXADIFEN-ETHYL	0.3 oz/a C	

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
		33
4 SURESTART II	2.5 pt/a A	96 c
ENLIST DUO	56 fl oz/a C	
N-PAK AMS	2.5 % v/v C	98 a
5 SURESTART II	2.5 pt/a A	98 abc
REALM Q @ 4 OZ/A	C	
MESOTRIONE	2.5 oz/a C	100 a
RESOLVE	1.2 oz/a C	
ISOXADIFEN-ETHYL	0.3 oz/a C	

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
		33
		34
6 SURESTART II	2.5 pt/a A	97 bc
ATRAZINE	3 pt/a A	
REALM Q @ 4 OZ/A	C	
MESOTRIONE	2.5 oz/a C	
RESOLVE	1.2 oz/a C	
ISOXADIFEN-ETHYL	0.3 oz/a C	
7 RESICORE	2.75 qt/a A	98 abc
ASSURE II	5 fl oz/a C	
COC	1 % v/v C	100 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		33
		34
8 RESICORE	2.75 qt/a	A
SELECT MAX	12 fl oz/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
9 ACURON	3 qt/a	A
10 ACURON	1.5 qt/a	A
HALEX GT	3.6 pt/a	C
AATREX	1 pt/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
N-PAK AMS	2.5 % v/v	C

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
		33
		34
11 BICEP II MAGNUM	1.5 qt/a A	100 ab
HALEX GT	3.6 pt/a C	
AATREX	1 pt/a C	
ACTIVATOR 90 NIS	0.25 % v/v C	
N-PAK AMS	2.5 % v/v C	100 a
12 HALEX GT	4 pt/a B	98 abc
AATREX	1 pt/a B	
ACTIVATOR 90 NIS	0.25 % v/v B	
N-PAK AMS	2.5 % v/v B	100 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	33	34
13 BICEP II MAGNUM	1.5 qt/a A	100 a
HALEX GT	3.6 pt/a C	
STATUS	3 oz/a C	
ACTIVATOR 90 NIS	0.25 % v/v C	
N-PAK AMS	2.5 % v/v C	
LSD P=.05	2.7	2.2
Standard Deviation	1.9	1.6
CV	1.88	1.56
Grand Mean	98.9	99.7
Levene's F	1.764	0.927
Levene's Prob(F)	0.098	0.526

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Crop Variety		
Description		
Rating Date	Aug-13-2019	Aug-13-2019
SE Group No.	25	26
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Aug-13-2019
Rating Timing	A6	A
Days After First/Last Applic.	84 56	84 56
Plant-Eval Interval	84 DP-1	84 DP-1
Days After Emergence	74 DE-1	74 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	33	34
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.244*	-5.4791*
Kurtosis	5.4152*	31.0744*
Replicate F	1.687	1.941
Replicate Prob(F)	0.1888	0.1421
Treatment F	2.278	1.000
Treatment Prob(F)	0.0334	0.4671

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Crop Variety	PIONEER 1003793-47	PIONEER 1003793-47	
Description	ENLIST 2,4-D/RR/LL	ENLIST 2,4-D/RR/LL	
Rating Date	Oct-17-2019	Oct-17-2019	
SE Group No.	27	28	
Part Rated	PLOT -	PLOT -	
Rating Type	YIELD	MOICON	
Rating Unit	lb/plot	%	
Sample Size	1 PLOT		
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	
ARM Action Codes			
Number of Decimals	1	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			35
1 UNTREATED CHECK			3.5
2 RESICORE	2.75 qt/a	A	38.4 abc
ENLIST DUO	56 fl oz/a	C	
N-PAK AMS	2.5 % v/v	C	
3 RESICORE	2.75 qt/a	A	36.6 a-d
REALM Q @ 4 OZ/A		C	
MESOTRIONE	2.5 oz/a	C	
RESOLVE	1.2 oz/a	C	
ISOXADIFEN-ETHYL	0.3 oz/a	C	
			18.2 a
			18.3 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Type, Code		C ZEAMX		C ZEAMX	
BBCH Scale		BCOR		BCOR	
Crop Scientific Name		Zea mays		Zea mays	
Crop Name		Corn		Corn	
Crop Variety		PIONEER 1003793-47		PIONEER 1003793-47	
Description		ENLIST 2,4-D/RR/LL		ENLIST 2,4-D/RR/LL	
Rating Date		Oct-17-2019		Oct-17-2019	
SE Group No.		27		28	
Part Rated		PLOT -		PLOT -	
Rating Type		YIELD		MOICON	
Rating Unit		lb/plot		%	
Sample Size		1 PLOT			
Number of Subsamples		1		1	
Assessed By		J. HAARMANN		J. HAARMANN	
Data Entry Date		Oct-22-2019		Oct-22-2019	
Rating Timing		H1		H1	
Days After First/Last Applic.		149 121		149 121	
Plant-Eval Interval		149 DP-1		149 DP-1	
Days After Emergence		139 DE-1		139 DE-1	
ARM Action Codes					
Number of Decimals		1		1	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	35	36	
4 SURESTART II	2.5 pt/a	A	37.5 abc	18.2 a	
ENLIST DUO	56 fl oz/a	C			
N-PAK AMS	2.5 % v/v	C			
5 SURESTART II	2.5 pt/a	A	30.9 d	18.3 a	
REALM Q @ 4 OZ/A		C			
MESOTRIONE	2.5 oz/a	C			
RESOLVE	1.2 oz/a	C			
ISOXADIFEN-ETHYL	0.3 oz/a	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Crop Variety	PIONEER 1003793-47	PIONEER 1003793-47	
Description	ENLIST 2,4-D/RR/LL	ENLIST 2,4-D/RR/LL	
Rating Date	Oct-17-2019	Oct-17-2019	
SE Group No.	27	28	
Part Rated	PLOT -	PLOT -	
Rating Type	YIELD	MOICON	
Rating Unit	lb/plot	%	
Sample Size	1 PLOT		
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	
ARM Action Codes			
Number of Decimals	1	1	
Trt Treatment			
No. Name	Rate Unit	Appl Code	
			35
6 SURESTART II	2.5 pt/a	A	32.7 cd
ATRAZINE	3 pt/a	A	
REALM Q @ 4 OZ/A		C	
MESOTRIONE	2.5 oz/a	C	
RESOLVE	1.2 oz/a	C	
ISOXADIFEN-ETHYL	0.3 oz/a	C	
7 RESICORE	2.75 qt/a	A	41.1 a
ASSURE II	5 fl oz/a	C	
COC	1 % v/v	C	19.0 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Crop Variety	PIONEER 1003793-47	PIONEER 1003793-47	
Description	ENLIST 2,4-D/RR/LL	ENLIST 2,4-D/RR/LL	
Rating Date	Oct-17-2019	Oct-17-2019	
SE Group No.	27	28	
Part Rated	PLOT -	PLOT -	
Rating Type	YIELD	MOICON	
Rating Unit	lb/plot	%	
Sample Size	1 PLOT		
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	
ARM Action Codes			
Number of Decimals	1	1	
Trt Treatment			
No. Name	Rate Unit Appl Code	35	36
8 RESICORE	2.75 qt/a A	1.6 e	10.4 b
SELECT MAX	12 fl oz/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
9 ACURON	3 qt/a A	33.6 cd	18.4 a
10 ACURON	1.5 qt/a A	38.3 abc	18.2 a
HALEX GT	3.6 pt/a C		
AATREX	1 pt/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
N-PAK AMS	2.5 % v/v C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Crop Variety	PIONEER 1003793-47	PIONEER 1003793-47	
Description	ENLIST 2,4-D/RR/LL	ENLIST 2,4-D/RR/LL	
Rating Date	Oct-17-2019	Oct-17-2019	
SE Group No.	27	28	
Part Rated	PLOT -	PLOT -	
Rating Type	YIELD	MOICON	
Rating Unit	lb/plot	%	
Sample Size	1 PLOT		
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	
ARM Action Codes			
Number of Decimals	1	1	
Trt Treatment			
No. Name	Rate Unit	Appl Code	
			35
11 BICEP II MAGNUM	1.5 qt/a	A	40.3 ab
HALEX GT	3.6 pt/a	C	
AATREX	1 pt/a	C	
ACTIVATOR 90 NIS	0.25 % v/v	C	
N-PAK AMS	2.5 % v/v	C	
12 HALEX GT	4 pt/a	B	36.0 a-d
AATREX	1 pt/a	B	
ACTIVATOR 90 NIS	0.25 % v/v	B	
N-PAK AMS	2.5 % v/v	B	18.7 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.

Missing data estimates are included in columns: Yates=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code		C ZEAMX	C ZEAMX	
BBCH Scale		BCOR	BCOR	
Crop Scientific Name		Zea mays	Zea mays	
Crop Name		Corn	Corn	
Crop Variety		PIONEER 1003793-47	PIONEER 1003793-47	
Description		ENLIST 2,4-D/RR/LL	ENLIST 2,4-D/RR/LL	
Rating Date		Oct-17-2019	Oct-17-2019	
SE Group No.		27	28	
Part Rated		PLOT -	PLOT -	
Rating Type		YIELD	MOICON	
Rating Unit		lb/plot	%	
Sample Size		1 PLOT		
Number of Subsamples		1	1	
Assessed By		J. HAARMANN	J. HAARMANN	
Data Entry Date		Oct-22-2019	Oct-22-2019	
Rating Timing		H1	H1	
Days After First/Last Applic.		149 121	149 121	
Plant-Eval Interval		149 DP-1	149 DP-1	
Days After Emergence		139 DE-1	139 DE-1	
ARM Action Codes				
Number of Decimals		1	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	35	36
13 BICEP II MAGNUM	1.5 qt/a	A	34.6 bcd	18.8 a
HALEX GT	3.6 pt/a	C		
STATUS	3 oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		
LSD P=.05			6.19	3.54
Standard Deviation			4.30	2.46
CV			12.85	13.77
Grand Mean			33.46	17.88
Levene's F			0.784	2.575
Levene's Prob(F)			0.654	0.016*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta				
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code	C	ZEAMX	C	ZEAMX
BBCH Scale		BCOR		BCOR
Crop Scientific Name		Zea mays		Zea mays
Crop Name		Corn		Corn
Crop Variety		PIONEER 1003793-47		PIONEER 1003793-47
Description		ENLIST 2,4-D/RR/LL		ENLIST 2,4-D/RR/LL
Rating Date		Oct-17-2019		Oct-17-2019
SE Group No.		27		28
Part Rated		PLOT -		PLOT -
Rating Type		YIELD		MOICON
Rating Unit		lb/plot		%
Sample Size		1 PLOT		
Number of Subsamples		1		1
Assessed By		J. HAARMANN		J. HAARMANN
Data Entry Date		Oct-22-2019		Oct-22-2019
Rating Timing		H1		H1
Days After First/Last Applic.		149 121		149 121
Plant-Eval Interval		149 DP-1		149 DP-1
Days After Emergence		139 DE-1		139 DE-1
ARM Action Codes				
Number of Decimals		1		1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	35	36
Rank X2			.	.
P(Rank X2)			.	.
Skewness			-2.1663*	-4.3781*
Kurtosis			4.343*	23.2989*
Replicate F			0.647	0.123
Replicate Prob(F)			0.5903	0.9458
Treatment F			23.739	3.742
Treatment Prob(F)			0.0001	0.0016

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked	
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019	
SE Group No.	29	30	31	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	YIELD	YIELD	MOICON	
Rating Unit	BU	lb/plot	%	
Sample Size	1 A	1 PLOT		
Number of Subsamples	1	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	H1	
Days After First/Last Applic.	149 121	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	139 DE-1	
ARM Action Codes	TY1			
Number of Decimals	1	1	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	37	38
1 UNTREATED CHECK			21.3	12.2
2 RESICORE	2.75 qt/a	A	231.6 abc	38.5 d
ENLIST DUO	56 fl oz/a	C		
N-PAK AMS	2.5 % v/v	C		
3 RESICORE	2.75 qt/a	A	219.9 a-d	49.3 a
REALM Q @ 4 OZ/A		C		
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		
				20.0 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked	
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019	
SE Group No.	29	30	31	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	YIELD	YIELD	MOICON	
Rating Unit	BU	lb/plot	%	
Sample Size	1 A	1 PLOT		
Number of Subsamples	1	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	H1	
Days After First/Last Applic.	149 121	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	139 DE-1	
ARM Action Codes	TY1			
Number of Decimals	1	1	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	37	38
4 SURESTART II	2.5 pt/a	A	225.5 abc	39.4 cd
ENLIST DUO	56 fl oz/a	C		20.2 a
N-PAK AMS	2.5 % v/v	C		
5 SURESTART II	2.5 pt/a	A	185.6 d	47.1 ab
REALM Q @ 4 OZ/A		C		20.2 a
MESOTRIONE	2.5 oz/a	C		
RESOLVE	1.2 oz/a	C		
ISOXADIFEN-ETHYL	0.3 oz/a	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial	
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson			
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Coretva & Syngenta			
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB		
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked		
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019		
SE Group No.	29	30	31		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	YIELD	YIELD	MOICON		
Rating Unit	BU	lb/plot	%		
Sample Size	1 A	1 PLOT			
Number of Subsamples	1	1	1		
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1	H1		
Days After First/Last Applic.	149 121	149 121	149 121		
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1		
Days After Emergence	139 DE-1	139 DE-1	139 DE-1		
ARM Action Codes	TY1				
Number of Decimals	1	1	1		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	37	38	39
6 SURESTART II	2.5 pt/a	A	195.8 cd	45.1 abc	21.1 a
ATRAZINE	3 pt/a	A			
REALM Q @ 4 OZ/A		C			
MESOTRIONE	2.5 oz/a	C			
RESOLVE	1.2 oz/a	C			
ISOXADIFEN-ETHYL	0.3 oz/a	C			
7 RESICORE	2.75 qt/a	A	244.7 a	2.5 e	13.3 b
ASSURE II	5 fl oz/a	C			
COC	1 % v/v	C			

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked	
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019	
SE Group No.	29	30	31	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	YIELD	YIELD	MOICON	
Rating Unit	BU	lb/plot	%	
Sample Size	1 A	1 PLOT		
Number of Subsamples	1	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	H1	
Days After First/Last Applic.	149 121	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	139 DE-1	
ARM Action Codes	TY1			
Number of Decimals	1	1	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	37	38
8 RESICORE	2.75 qt/a	A	10.2 e	14.2 b
SELECT MAX	12 fl oz/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
9 ACURON	3 qt/a	A	201.7 cd	19.6 a
10 ACURON	1.5 qt/a	A	230.8 abc	20.0 a
HALEX GT	3.6 pt/a	C		
AATREX	1 pt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase				Trial
Trial ID: 19S-TPAC-CORN-05-2		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: Coretva & Syngenta
Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB	
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked	
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019	
SE Group No.	29	30	31	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	YIELD	YIELD	MOICON	
Rating Unit	BU	lb/plot	%	
Sample Size	1 A	1 PLOT		
Number of Subsamples	1	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	H1	
Days After First/Last Applic.	149 121	149 121	149 121	
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1	
Days After Emergence	139 DE-1	139 DE-1	139 DE-1	
ARM Action Codes	TY1			
Number of Decimals	1	1	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	37	38
11 BICEP II MAGNUM	1.5 qt/a	A	239.4 ab	45.9 ab
HALEX GT	3.6 pt/a	C		20.5 a
AATREX	1 pt/a	C		
ACTIVATOR 90 NIS	0.25 % v/v	C		
N-PAK AMS	2.5 % v/v	C		
12 HALEX GT	4 pt/a	B	215.8 a-d	47.5 ab
AATREX	1 pt/a	B		20.0 a
ACTIVATOR 90 NIS	0.25 % v/v	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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial	
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019
SE Group No.	29	30	31
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	YIELD	MOICON
Rating Unit	BU	lb/plot	%
Sample Size	1 A	1 PLOT	
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	149 121	149 121	149 121
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1
Days After Emergence	139 DE-1	139 DE-1	139 DE-1
ARM Action Codes	TY1		
Number of Decimals	1	1	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			37
			38
			39
13 BICEP II MAGNUM	1.5 qt/a	A	206.5 bcd
HALEX GT	3.6 pt/a	C	42.5 bcd
STATUS	3 oz/a	C	20.2 a
ACTIVATOR 90 NIS	0.25 % v/v	C	
N-PAK AMS	2.5 % v/v	C	
LSD P=.05	36.28	6.12	3.36
Standard Deviation	25.22	4.25	2.34
CV	12.57	11.44	12.28
Grand Mean	200.63	37.15	19.02
Levene's F	0.719	0.885	7.132
Levene's Prob(F)	0.713	0.562	0.001*

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase			
Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC		Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Coretva & Syngenta			
Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Crop Variety	PIONEER 1003793-47	DKC62-52RIB	DKC62-52RIB
Description	ENLIST 2,4-D/RR/LL	RR/LL Stacked	RR/LL Stacked
Rating Date	Oct-17-2019	Oct-17-2019	Oct-17-2019
SE Group No.	29	30	31
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	YIELD	MOICON
Rating Unit	BU	lb/plot	%
Sample Size	1 A	1 PLOT	
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-22-2019	Oct-22-2019	Oct-22-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	149 121	149 121	149 121
Plant-Eval Interval	149 DP-1	149 DP-1	149 DP-1
Days After Emergence	139 DE-1	139 DE-1	139 DE-1
ARM Action Codes	TY1		
Number of Decimals	1	1	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	37	38	39
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	-2.1842*	-1.4865*	-2.4221*
Kurtosis	4.4237*	0.7866	5.4082*
Replicate F	0.631	2.914	3.259
Replicate Prob(F)	0.6003	0.0488	0.0337
Treatment F	24.631	60.764	4.628
Treatment Prob(F)	0.0001	0.0001	0.0003

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type		
Pest Code		
Pest Scientific Name		
Pest Name		
Crop Type, Code	C ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Crop Variety	DKC62-52RIB	
Description	RR/LL Stacked	
Rating Date	Oct-17-2019	
SE Group No.	32	
Part Rated	PLOT -	
Rating Type	YIELD	
Rating Unit	BU	
Sample Size	1 A	
Number of Subsamples	1	
Assessed By	J. HAARMANN	
Data Entry Date	Oct-22-2019	
Rating Timing	H1	
Days After First/Last Applic.	149 121	
Plant-Eval Interval	149 DP-1	
Days After Emergence	139 DE-1	
ARM Action Codes	TY2	
Number of Decimals	1	
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
1 UNTREATED CHECK		40
		72.0
2 RESICORE	2.75 qt/a	A
ENLIST DUO	56 fl oz/a	C
N-PAK AMS	2.5 % v/v	C
		229.6 c
3 RESICORE	2.75 qt/a	A
REALM Q @ 4 OZ/A		C
MESOTRIONE	2.5 oz/a	C
RESOLVE	1.2 oz/a	C
ISOXADIFEN-ETHYL	0.3 oz/a	C
		290.2 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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type		
Pest Code		
Pest Scientific Name		
Pest Name		
Crop Type, Code	C ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Crop Variety	DKC62-52RIB	
Description	RR/LL Stacked	
Rating Date	Oct-17-2019	
SE Group No.	32	
Part Rated	PLOT -	
Rating Type	YIELD	
Rating Unit	BU	
Sample Size	1 A	
Number of Subsamples	1	
Assessed By	J. HAARMANN	
Data Entry Date	Oct-22-2019	
Rating Timing	H1	
Days After First/Last Applic.	149 121	
Plant-Eval Interval	149 DP-1	
Days After Emergence	139 DE-1	
ARM Action Codes	TY2	
Number of Decimals	1	
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		40
4 SURESTART II	2.5 pt/a	A
ENLIST DUO	56 fl oz/a	C
N-PAK AMS	2.5 % v/v	C
		231.9 c
5 SURESTART II	2.5 pt/a	A
REALM Q @ 4 OZ/A		C
MESOTRIONE	2.5 oz/a	C
RESOLVE	1.2 oz/a	C
ISOXADIFEN-ETHYL	0.3 oz/a	C
		276.6 ab

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type		
Pest Code		
Pest Scientific Name		
Pest Name		
Crop Type, Code	C ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Crop Variety	DKC62-52RIB	
Description	RR/LL Stacked	
Rating Date	Oct-17-2019	
SE Group No.	32	
Part Rated	PLOT -	
Rating Type	YIELD	
Rating Unit	BU	
Sample Size	1 A	
Number of Subsamples	1	
Assessed By	J. HAARMANN	
Data Entry Date	Oct-22-2019	
Rating Timing	H1	
Days After First/Last Applic.	149 121	
Plant-Eval Interval	149 DP-1	
Days After Emergence	139 DE-1	
ARM Action Codes	TY2	
Number of Decimals	1	
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		40
6 SURESTART II	2.5 pt/a	A
ATRAZINE	3 pt/a	A
REALM Q @ 4 OZ/A		C
MESOTRIONE	2.5 oz/a	C
RESOLVE	1.2 oz/a	C
ISOXADIFEN-ETHYL	0.3 oz/a	C
7 RESICORE	2.75 qt/a	A
ASSURE II	5 fl oz/a	C
COC	1 % v/v	C
		261.9 abc
		15.6 d

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type		
Pest Code		
Pest Scientific Name		
Pest Name		
Crop Type, Code	C ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Crop Variety	DKC62-52RIB	
Description	RR/LL Stacked	
Rating Date	Oct-17-2019	
SE Group No.	32	
Part Rated	PLOT -	
Rating Type	YIELD	
Rating Unit	BU	
Sample Size	1 A	
Number of Subsamples	1	
Assessed By	J. HAARMANN	
Data Entry Date	Oct-22-2019	
Rating Timing	H1	
Days After First/Last Applic.	149 121	
Plant-Eval Interval	149 DP-1	
Days After Emergence	139 DE-1	
ARM Action Codes	TY2	
Number of Decimals	1	
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
40		
8 RESICORE	2.75 qt/a	A
SELECT MAX	12 fl oz/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
13.3 d		
9 ACURON	3 qt/a	A
246.6 bc		
10 ACURON	1.5 qt/a	A
HALEX GT	3.6 pt/a	C
AATREX	1 pt/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
N-PAK AMS	2.5 % v/v	C
260.2 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.

Missing data estimates are included in columns: Yates=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type		
Pest Code		
Pest Scientific Name		
Pest Name		
Crop Type, Code	C ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Crop Variety	DKC62-52RIB	
Description	RR/LL Stacked	
Rating Date	Oct-17-2019	
SE Group No.	32	
Part Rated	PLOT -	
Rating Type	YIELD	
Rating Unit	BU	
Sample Size	1 A	
Number of Subsamples	1	
Assessed By	J. HAARMANN	
Data Entry Date	Oct-22-2019	
Rating Timing	H1	
Days After First/Last Applic.	149 121	
Plant-Eval Interval	149 DP-1	
Days After Emergence	139 DE-1	
ARM Action Codes	TY2	
Number of Decimals	1	
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		40
11 BICEP II MAGNUM	1.5 qt/a	A
HALEX GT	3.6 pt/a	C
AATREX	1 pt/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
N-PAK AMS	2.5 % v/v	C
		268.8 ab
12 HALEX GT	4 pt/a	B
AATREX	1 pt/a	B
ACTIVATOR 90 NIS	0.25 % v/v	B
N-PAK AMS	2.5 % v/v	B
		279.6 ab

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type		
Pest Code		
Pest Scientific Name		
Pest Name		
Crop Type, Code	C ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Crop Variety	DKC62-52RIB	
Description	RR/LL Stacked	
Rating Date	Oct-17-2019	
SE Group No.	32	
Part Rated	PLOT -	
Rating Type	YIELD	
Rating Unit	BU	
Sample Size	1 A	
Number of Subsamples	1	
Assessed By	J. HAARMANN	
Data Entry Date	Oct-22-2019	
Rating Timing	H1	
Days After First/Last Applic.	149 121	
Plant-Eval Interval	149 DP-1	
Days After Emergence	139 DE-1	
ARM Action Codes	TY2	
Number of Decimals	1	
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		40
13 BICEP II MAGNUM	1.5 qt/a	A
HALEX GT	3.6 pt/a	C
STATUS	3 oz/a	C
ACTIVATOR 90 NIS	0.25 % v/v	C
N-PAK AMS	2.5 % v/v	C
LSD P=.05		36.16
Standard Deviation		25.13
CV		11.49
Grand Mean		218.70
Levene's F		0.958
Levene's Prob(F)		0.50

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=8,30

Could not calculate LSD (% mean diff) for columns 10,11,12,16,17,18,23,28,29 because error mean square = 0.

Purdue Weed Science

Corn Herbicide Program Showcase

Trial ID: 19S-TPAC-CORN-05-2	Location: TPAC	Trial
Protocol ID: 19S-TPAC-CORN-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: Showcase	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Coretva & Syngenta	

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Type, Code	C ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Crop Variety	DKC62-52RIB
Description	RR/LL Stacked
Rating Date	Oct-17-2019
SE Group No.	32
Part Rated	PLOT -
Rating Type	YIELD
Rating Unit	BU
Sample Size	1 A
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-22-2019
Rating Timing	H1
Days After First/Last Applic.	149 121
Plant-Eval Interval	149 DP-1
Days After Emergence	139 DE-1
ARM Action Codes	TY2
Number of Decimals	1
Trt Treatment	
No. Name	Rate Unit Appl Code
	40
Rank X2	.
P(Rank X2)	.
Skewness	-1.5016*
Kurtosis	0.8055
Replicate F	2.249
Replicate Prob(F)	0.1010
Treatment F	59.711
Treatment Prob(F)	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=8,30

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Purdue Weed Science

Corn Herbicide Program Showcase

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	Sponsor Contact: Coretva & Syngenta	

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

SETPU, Setaria helvola, yellow foxtail = US

ECHSS, Echinochloa sp., Barnyardgrass = US

Crop Type, Code

C = EPPO species (Bayer) codes

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

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

PLOT = total plot

A = acre

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

H1 = 1st Harvest

Plant-Eval Interval

27 DP-1 = 1 ZEAMX May-21-2019

35 DP-1 = 1 ZEAMX May-21-2019

42 DP-1 = 1 ZEAMX May-21-2019

55 DP-1 = 1 ZEAMX May-21-2019

70 DP-1 = 1 ZEAMX May-21-2019

84 DP-1 = 1 ZEAMX May-21-2019

149 DP-1 = 1 ZEAMX May-21-2019

ARM Action Codes

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

TY1 = $6.222857 * [C35] * (100 - [C36]) / 84.5$

TY2 = $6.222857 * [C38] * (100 - [C39]) / 84.5$