

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-06 Investigator: Dr. Bill Johnson
 Project ID: EHLCor05-2017 Study Director: Dustin Johnson
 Sponsor Contact: C. Threewits - Syngenta

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: Apr-25-2017

Trial Location

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

Latitude of LL Corner °: 40.29343 N
Longitude of LL Corner °: 86.90988 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

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

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

Cooperator/Landowner

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DK62-08STXRIB
Description: RR/LL Stacked

Planting Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Soil Temperature, Unit: 70 F
Soil Moisture: DRY dry

Planting Date: Apr-25-2017
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: May-15-2017
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT
% Standard Moisture: 15.5

Pest Description

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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 12
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOBL Randomized Complete Block (RCB)

Field Prep./Maintenance:
 171 lbs of N as UAN on 4/18/17

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Soil Description

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

Application Description

	A	B	C
Application Date:	Apr-25-2017	May-31-2017	Jun-20-2017
Appl. Start Time:	3:20 PM	11:42 AM	7:40 AM
Appl. Stop Time:	3:55 PM	11:45 AM	7:55 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPLA	POSPOS	POSPOS
Application Placement:	BROADC	BROADC	BROADC
Applied By:	T. CAMPBELL	B. MANSFIEL	M. ZIMMER
Air Temperature, Unit:	78 F	73 F	63 F
% Relative Humidity:	44	39	79
Wind Velocity, Unit:	9 MPH	8 MPH	3 MPH
Wind Direction:	SSE	W	SSW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	70 F	66 F	64 F
Soil Moisture:	DRY	SLIWET	WET
% Cloud Cover:	40	10	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		13	17
Stage Minimum, Percent:		12	15
Stage Maximum, Percent:		14	18
Height, Unit:			20 IN
Height Minimum, Maximum:			10 25

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	00	12	19
Stage Minimum, Percent:	00	10	10
Stage Maximum, Percent:	00	14	19
Height, Unit:		2 IN	14 IN
Height Minimum, Maximum:		0.5 4	0.5 30
Density, Unit:		13 FT2	13 FT2

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Application Equipment

	A	B	C
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	29 PSI	18 PSI	18 PSI
Nozzle Type:	TTI	FLAFXR	FLAFXR
Nozzle Size:	TTI110015	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 liters	1.8 liters	1.8 liters
Propellant:	COMCO2	COMCO2	COMCO2

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED CHECK								101	405	604	803
2	ACURON	3.44	LB/GAL	ZC	1 qt/a	A	30.0 ml/mx		102	402	501	802
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
3	ACURON	3.44	LB/GAL	ZC	1.5 qt/a	A	45.0 ml/mx		103	401	602	805
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
4	ACURON	3.44	LB/GAL	ZC	2 qt/a	A	60.0 ml/mx		104	404	502	801
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
5	ACURON	3.44	LB/GAL	ZC	3 qt/a	A	90.0 ml/mx		105	304	504	705
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
6	RESICORE	3.29	LB/GAL	L	1.25 qt/a	A	37.5 ml/mx		106	302	506	702
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
7	RESICORE	3.29	LB/GAL	L	2.5 qt/a	A	75.0 ml/mx		201	303	606	703
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
8	CORVUS	2.63	LB/GAL	SC	3.3 fl oz/a	A	3.094 ml/mx		202	406	505	706
	AATREX	4	LB/GAL	L	1 pt/a	A	15.0 ml/mx					
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
9	BICEP II MAGNUM	5.5	LB/GAL	SC	1.4 qt/a	A	42.0 ml/mx		203	306	605	701
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
10	LEXAR EZ	3.704	LB/GAL	L	1.75 qt/a	A	52.5 ml/mx		204	301	601	704
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx					
	STATUS	56 %		WG	5 oz/a	C	4.493 g/mx					
	N-PAK AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
11	ACURON	3.44	LB/GAL	ZC	1.5 qt/a	A	45.0 ml/mx		205	403	603	806
	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a	B	54.0 ml/mx					
	AATREX	4	LB/GAL	L	1 pt/a	B	15.0 ml/mx					
	ACTIVATOR 90 NIS	100 %		SL	0.25 % v/v	B	4.5 ml/mx					
12	UNTREATED CHECK 2								206	305	503	804

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
337.499	ml	ACURON	3.44	LB/GAL	ZC	
337.500	ml	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
50.552	g	STATUS	56	%	WG	
506.195	ml	N-PAK AMS	3.4	LBA/GAL	L	
140.625	ml	RESICORE	3.29	LB/GAL	L	
3.867	ml	CORVUS	2.63	LB/GAL	SC	

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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
37.500	ml	AATREX	4	LB/GAL	L	
52.500	ml	BICEP II MAGNUM	5.5	LB/GAL	SC	
65.625	ml	LEXAR EZ	3.704	LB/GAL	L	
67.500	ml	HALEX GT	4.389	LBAE/GAL	L	
5.624	ml	ACTIVATOR 90 NIS	100	%	SL	

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

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

Trial Comments

5/16/17-Water ponding in first rep and first part of second rep. Did not rate plots 101-202.

5/30/17-6/6/17-Did not rate crop injury for plots 101-202 due to late and spotty emergence from excessive water pooling.

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Pest Type Pest Code Pest Name	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed	W Weed AMBTR Giant ragweed
Crop Code Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Assessed By	ZEAMX Corn PLOT - May-16-2017 CONTRO 1 D. JOHNSON	ZEAMX Corn PLOT - May-16-2017 PHYGEN 1 D. JOHNSON	ZEAMX Corn PLOT - May-30-2017 CONTRO 1 D. JOHNSON	ZEAMX Corn PLOT - May-30-2017 PHYGEN 1 D. JOHNSON	ZEAMX Corn PLOT - Jun-6-2017 CONTRO 1 D. JOHNSON
Rating Timing Days After First/Last Applic. Trt-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	A1 21 21 21 DA-A 1 DE-1 P 0	A1 21 21 21 DA-A 1 DE-1 P 0	A2 35 35 21 DA-A 15 DE-1 P 0	A2 35 35 21 DA-A 15 DE-1 P 0	A3 42 6 21 DA-A 22 DE-1 P 0
Trt Treatment No. Name	1	2	3	4	5
Rate Unit Appl Code					
1 UNTREATED CHECK	0 c	0 b	0 c	0 a	0 f
2 ACURON ROUNDUP POWERMAX STATUS N-PAK AMS	82 a	7 ab	80 a	1 a	79 bc
3 ACURON ROUNDUP POWERMAX STATUS N-PAK AMS	88 a	5 ab	79 a	3 a	79 bc
4 ACURON ROUNDUP POWERMAX STATUS N-PAK AMS	86 a	3 ab	85 a	1 a	88 b
5 ACURON ROUNDUP POWERMAX STATUS N-PAK AMS	87 a	3 ab	83 a	1 a	88 b
6 RESICORE ROUNDUP POWERMAX STATUS N-PAK AMS	83 a	7 ab	79 a	3 a	69 cd
7 RESICORE ROUNDUP POWERMAX STATUS N-PAK AMS	92 a	5 ab	87 a	3 a	84 b
8 CORVUS AATREX ROUNDUP POWERMAX STATUS N-PAK AMS	83 a	10 a	80 a	5 a	81 bc
9 BICEP II MAGNUM ROUNDUP POWERMAX STATUS N-PAK AMS	71 b	6 ab	50 b	3 a	19 e
10 LEXAR EZ ROUNDUP POWERMAX STATUS N-PAK AMS	80 ab	1 b	74 a	0 a	65 d
11 ACURON HALEX GT AATREX ACTIVATOR 90 NIS	80 ab	4 ab	78 a	0 a	99 a

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=1,2,4,6,18,19,20
 Could not calculate LSD (% mean diff) for columns 8,10 because error mean square = 0.

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Pest Type	W Weed		W Weed		W Weed			
Pest Code	AMBTR		AMBTR		AMBTR			
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn		Corn		Corn			
Part Rated	PLOT -		PLOT -		PLOT -			
Rating Date	May-16-2017	May-16-2017	May-30-2017	May-30-2017	Jun-6-2017	Jun-6-2017		
Rating Type	PHYGEN		PHYGEN		PHYGEN			
Rating Unit	CONTRO		CONTRO		CONTRO			
Number of Subsamples	1	1	1	1	1	1		
Assessed By	D. JOHNSON		D. JOHNSON		D. JOHNSON			
Rating Timing	A1	A1	A2	A2	A3	A3		
Days After First/Last Applic.	21 21	21 21	35 35	35 35	42 6	42 6		
Trt-Eval Interval	21 DA-A		21 DA-A		21 DA-A			
Days After Emergence	1 DE-1	1 DE-1	15 DE-1	15 DE-1	22 DE-1	22 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
12 UNTREATED CHECK 2	0 c		0 b		0 c	0 a	0 f	0 b
LSD P=.05	7.5	4.6	8.0	3.6	9.6	2.5		
Standard Deviation	5.2	3.2	5.6	2.5	6.7	1.7		
CV	7.46	75.59	8.69	141.67	10.74	249.12		
Bartlett's X2	12.489	4.738	23.174	1.263	12.103	0.404		
P(Bartlett's X2)	0.131	0.692	0.003*	0.989	0.208	0.817		
Skewness	-1.4239*	0.694	-1.505*	1.2163*	-0.9734*	3.0591*		
Kurtosis	0.2791	0.045	0.5997	0.5288	-0.6338	9.5412*		
Replicate F	9.431	0.367	1.414	0.745	1.156	0.619		
Replicate Prob(F)	0.0002	0.7771	0.2561	0.5350	0.3411	0.6090		
Treatment F	160.527	3.411	126.681	1.641	110.846	3.010		
Treatment Prob(F)	0.0001	0.0049	0.0001	0.1450	0.0001	0.0102		

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Pest Type	W Weed		W Weed		W Weed		W Weed	
Pest Code	AMBTR		AMBTR		AMBTR		AMBTR	
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed		Giant ragweed	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn		Corn		Corn		Corn	
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-13-2017	Jun-13-2017	Jun-20-2017	Jun-20-2017	Jun-28-2017	Jun-28-2017	Jul-5-2017	Jul-5-2017
Rating Type	CONTR0		PHYGEN		CONTR0		CONTR0	
Rating Unit								
Number of Subsamples	1	1	1	1	1	1	1	1
Assessed By	M. ZIMMER		M. ZIMMER		M. ZIMMER		M. ZIMMER	
Rating Timing	A4	A4	A5	A5	A6	A6	A7	A7
Days After First/Last Applic.	49 13	49 13	56 20	56 20	64 8	64 8	71 15	71 15
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	29 DE-1	29 DE-1	36 DE-1	36 DE-1	44 DE-1	44 DE-1	51 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
1 UNTREATED CHECK			0 f	0 a	0 g	0 a	0 g	0 e
2 ACURON	1 qt/a A		73 c	0 a	63 de	0 a	85 de	87 c
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
3 ACURON	1.5 qt/a A		79 bc	0 a	73 bcd	0 a	89 cd	91 bc
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
4 ACURON	2 qt/a A		85 bc	0 a	85 abc	0 a	92 bc	94 ab
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
5 ACURON	3 qt/a A		88 b	0 a	89 ab	0 a	94 ab	97 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
6 RESICORE	1.25 qt/a A		60 d	0 a	51 ef	0 a	83 def	85 c
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
7 RESICORE	2.5 qt/a A		78 bc	0 a	71 bcd	0 a	88 cd	88 c
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
8 CORVUS	3.3 fl oz/a A		75 bc	0 a	66 cde	0 a	82 def	87 c
AATREX	1 pt/a A							
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
9 BICEP II MAGNUM	1.4 qt/a A		18 e	0 a	18 g	0 a	77 f	78 d
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
10 LEXAR EZ	1.75 qt/a A		53 d	0 a	41 f	0 a	81 ef	87 c
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
11 ACURON	1.5 qt/a A		100 a	0 a	99 a	0 a	99 a	99 a
HALEX GT	3.6 pt/a B							
AATREX	1 pt/a B							
ACTIVATOR 90 NIS	0.25 % v/v B							

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Pest Code	AMBTR		AMBTR		AMBTR		AMBTR	
Pest Name	Giant ragweed		Giant ragweed		Giant ragweed		Giant ragweed	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-13-2017	Jun-13-2017	Jun-20-2017	Jun-20-2017	Jun-28-2017	Jun-28-2017	Jul-5-2017	Jul-5-2017
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN	CONTRO	PHYGEN	CONTRO	PHYGEN
Rating Unit								
Number of Subsamples	1	1	1	1	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A4	A4	A5	A5	A6	A6	A7	A7
Days After First/Last Applic.	49 13	49 13	56 20	56 20	64 8	64 8	71 15	71 15
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	29 DE-1	29 DE-1	36 DE-1	36 DE-1	44 DE-1	44 DE-1	51 DE-1	51 DE-1
ARM Action Codes	P	P	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0	0	0
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
12 UNTREATED CHECK 2	0 f	0 a	0 g	0 a	0 g	0 g	0 e	
LSD P=.05	9.3	.	14.8	.	4.6	4.5		
Standard Deviation	6.4	0.0	10.3	0.0	3.2	3.1		
CV	10.91	0.0	18.8	0.0	4.41	4.17		
Bartlett's X2	11.341	0.0	31.824	0.0	14.86	13.344		
P(Bartlett's X2)	0.124	.	0.001*	.	0.095	0.148		
Skewness	-0.7726*	.	-0.5088	.	-1.6932*	-1.7257*		
Kurtosis	-0.8999	.	-1.1461	.	1.1815	1.2317		
Replicate F	7.648	0.000	3.662	0.000	0.460	0.087		
Replicate Prob(F)	0.0005	1.0000	0.0221	1.0000	0.7120	0.9667		
Treatment F	115.226	0.000	42.664	0.000	462.243	514.237		
Treatment Prob(F)	0.0001	1.0000	0.0001	1.0000	0.0001	0.0001		

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=1,2,4,6,18,19,20
 Could not calculate LSD (% mean diff) for columns 8,10 because error mean square = 0.

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-06 Investigator: Dr. Bill Johnson
 Project ID: EHLCor05-2017 Study Director: Dustin Johnson
 Sponsor Contact: C. Threewits - Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR			
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jul-12-2017	Jul-18-2017	Jul-26-2017	Aug-1-2017	Aug-18-2017	Oct-19-2017		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	YIELD		
Rating Unit						LB		
Number of Subsamples	1	1	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	T. CAMPBELL	D. JOHNSON		
Rating Timing	A8	A9	A10	A11	AC			
Days After First/Last Applic.	78 22	84 28	92 36	98 42	115 59	177 121		
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Days After Emergence	58 DE-1	64 DE-1	72 DE-1	78 DE-1	95 DE-1	157 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	13	14	15	16	17	18
1 UNTREATED CHECK			0 d	0 c	0 c	0 c	0 c	1.355 c
2 ACURON	1 qt/a A		90 ab	94 a	96 a	96 a	95 a	31.325 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
3 ACURON	1.5 qt/a A		92 ab	96 a	98 a	98 a	98 a	29.725 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
4 ACURON	2 qt/a A		97 a	99 a	100 a	100 a	100 a	33.925 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
5 ACURON	3 qt/a A		97 a	99 a	99 a	99 a	98 a	33.900 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
6 RESICORE	1.25 qt/a A		86 b	92 a	94 a	94 a	92 a	37.049 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
7 RESICORE	2.5 qt/a A		89 ab	92 a	97 a	97 a	96 a	38.075 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
8 CORVUS	3.3 fl oz/a A		86 b	93 a	96 a	97 a	96 a	27.850 a
AATREX	1 pt/a A							
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
9 BICEP II MAGNUM	1.4 qt/a A		75 c	77 b	69 b	69 b	66 b	15.575 b
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
10 LEXAR EZ	1.75 qt/a A		88 ab	92 a	91 a	90 a	89 a	31.234 a
ROUNDUP POWERMAX	32 fl oz/a C							
STATUS	5 oz/a C							
N-PAK AMS	2.5 % v/v C							
11 ACURON	1.5 qt/a A		98 a	99 a	99 a	99 a	99 a	36.875 a
HALEX GT	3.6 pt/a B							
AATREX	1 pt/a B							
ACTIVATOR 90 NIS	0.25 % v/v B							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
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 Missing data estimates are included in columns: Yates=1,2,4,6,18,19,20
 Could not calculate LSD (% mean diff) for columns 8,10 because error mean square = 0.

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-06 Investigator: Dr. Bill Johnson
 Project ID: EHLCor05-2017 Study Director: Dustin Johnson
 Sponsor Contact: C. Threewits - Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jul-12-2017	Jul-18-2017	Jul-26-2017	Aug-1-2017	Aug-18-2017	Oct-19-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	YIELD
Rating Unit						LB
Number of Subsamples	1	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	T. CAMPBELL	D. JOHNSON
Rating Timing	A8	A9	A10	A11	AC	
Days After First/Last Applic.	78 22	84 28	92 36	98 42	115 59	177 121
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	
Days After Emergence	58 DE-1	64 DE-1	72 DE-1	78 DE-1	95 DE-1	157 DE-1
ARM Action Codes	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit
	13	14	15	16	17	18
12 UNTREATED CHECK 2	0 d	0 c	0 c	0 c	0 c	2.116 c
LSD P=.05	6.2	6.5	7.8	7.0	7.2	7.8009
Standard Deviation	4.3	4.5	5.5	4.9	5.0	5.3941
CV	5.75	5.82	6.98	6.24	6.45	20.29
Bartlett's X2	20.053	19.853	27.511	25.022	20.121	31.869
P(Bartlett's X2)	0.018*	0.019*	0.001*	0.003*	0.017*	0.001*
Skewness	-1.6854*	-1.7099*	-1.6308*	-1.6364*	-1.6016*	-0.9404*
Kurtosis	1.1248	1.1667	0.9328	0.9581	0.8839	-0.4518
Replicate F	0.147	0.593	0.507	0.718	0.478	4.329
Replicate Prob(F)	0.9307	0.6241	0.6803	0.5482	0.6997	0.0122
Treatment F	272.627	264.331	188.330	235.635	222.473	23.332
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=1,2,4,6,18,19,20
 Could not calculate LSD (% mean diff) for columns 8,10 because error mean square = 0.

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type			
Pest Code			
Pest Name			
Crop Code	ZEAMX	ZEAMX	
Crop Name	Corn	Corn	
Part Rated	PLOT -	PLOT -	
Rating Date	Oct-19-2017	Oct-19-2017	
Rating Type	MOICON	YIELD	
Rating Unit	%	BU	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Rating Timing			
Days After First/Last Applic.	177 121	177 121	
Trt-Eval Interval			
Days After Emergence	157 DE-1	157 DE-1	
ARM Action Codes		TY2	
Number of Decimals		1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
1 UNTREATED CHECK			19 20
2 ACURON	1 qt/a	A	4.58 b 9.0 c
ROUNDUP POWERMAX	32 fl oz/a	C	19.15 a 186.3 a
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
3 ACURON	1.5 qt/a	A	18.83 a 177.6 a
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
4 ACURON	2 qt/a	A	18.83 a 202.6 a
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
5 ACURON	3 qt/a	A	18.50 a 202.9 a
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
6 RESICORE	1.25 qt/a	A	18.84 a 221.3 a
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
7 RESICORE	2.5 qt/a	A	18.50 a 228.5 a
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
8 CORVUS	3.3 fl oz/a	A	18.23 a 167.4 a
AATREX	1 pt/a	A	
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
9 BICEP II MAGNUM	1.4 qt/a	A	18.84 a 92.8 b
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
10 LEXAR EZ	1.75 qt/a	A	19.02 a 186.0 a
ROUNDUP POWERMAX	32 fl oz/a	C	
STATUS	5 oz/a	C	
N-PAK AMS	2.5 % v/v	C	
11 ACURON	1.5 qt/a	A	18.25 a 221.6 a
HALEX GT	3.6 pt/a	B	
AATREX	1 pt/a	B	
ACTIVATOR 90 NIS	0.25 % v/v	B	

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns: Yates=1,2,4,6,18,19,20
Could not calculate LSD (% mean diff) for columns 8,10 because error mean square = 0.

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type		
Pest Code		
Pest Name		
Crop Code	ZEAMX	ZEAMX
Crop Name	Corn	Corn
Part Rated	PLOT -	PLOT -
Rating Date	Oct-19-2017	Oct-19-2017
Rating Type	MOICON	YIELD
Rating Unit	%	BU
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Rating Timing		
Days After First/Last Applic.	177 121	177 121
Trt-Eval Interval		
Days After Emergence	157 DE-1	157 DE-1
ARM Action Codes		TY2
Number of Decimals		1
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	19	20
12 UNTREATED CHECK 2	3.37 b	13.6 c
LSD P=.05	3.467	45.81
Standard Deviation	2.397	31.68
CV	14.76	19.91
Bartlett's X2	42.565	32.238
P(Bartlett's X2)	0.001*	0.001*
Skewness	-2.098*	-0.9557*
Kurtosis	2.8471*	-0.4355
Replicate F	1.584	3.851
Replicate Prob(F)	0.2145	0.0196
Treatment F	22.969	24.058
Treatment Prob(F)	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=1,2,4,6,18,19,20
 Could not calculate LSD (% mean diff) for columns 8,10 because error mean square = 0.

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

MOICON = moisture content

Rating Unit

LB = pound

% = percent

BU = bushel

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

A7 = 7th Assessment According to Trial Schedule

A8 = 8th Assessment According to Trial Schedule

A9 = 9th Assessment According to Trial Schedule

AC = 12th Assessment According to Trial Schedule

ARM Action Codes

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

TY2 = $6.222857 * [18] * (100 - @MVAVGREP([19])) / 84.5$

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-06 Investigator: Dr. Bill Johnson
 Project ID: EHLCor05-2017 Study Director: Dustin Johnson
 Sponsor Contact: C. Threewits - Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-16-2017	May-16-2017	May-30-2017	May-30-2017	Jun-6-2017
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN	CONTRO
Rating Unit					
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A2	A2	A3
Days After First/Last Applic.	21 21	21 21	35 35	35 35	42 6
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	1 DE-1	1 DE-1	15 DE-1	15 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	1	2	3
1 UNTREATED CHECK		101	0	0	0
		405	0	0	0
		604	0	0	0
		803	0	0	0
		Mean =	0	0	0
2 ACURON	1 qt/a A	102	75*	6*	85
ROUNDUP POWERMAX	32 fl oz/a C	402	90	10	85
STATUS	5 oz/a C	501	85	10	80
N-PAK AMS	2.5 % v/v C	802	80	0	70
		Mean =	82	7	80
3 ACURON	1.5 qt/a A	103	80*	5*	75
ROUNDUP POWERMAX	32 fl oz/a C	401	92	5	80
STATUS	5 oz/a C	602	90	5	80
N-PAK AMS	2.5 % v/v C	805	88	5	80
		Mean =	88	5	79
4 ACURON	2 qt/a A	104	79*	3*	85
ROUNDUP POWERMAX	32 fl oz/a C	404	90	0	80
STATUS	5 oz/a C	502	90	5	90
N-PAK AMS	2.5 % v/v C	801	85	5	85
		Mean =	86	3	85
5 ACURON	3 qt/a A	105	80*	3*	85
ROUNDUP POWERMAX	32 fl oz/a C	304	90	0	80
STATUS	5 oz/a C	504	85	0	80
N-PAK AMS	2.5 % v/v C	705	92	10	85
		Mean =	87	3	83
6 RESICORE	1.25 qt/a A	106	76*	6*	80
ROUNDUP POWERMAX	32 fl oz/a C	302	85	5	80
STATUS	5 oz/a C	506	80	10	75
N-PAK AMS	2.5 % v/v C	702	90	5	80
		Mean =	83	7	79
7 RESICORE	2.5 qt/a A	201	85*	5*	85
ROUNDUP POWERMAX	32 fl oz/a C	303	95	5	88
STATUS	5 oz/a C	606	92	5	85
N-PAK AMS	2.5 % v/v C	703	95	5	88
		Mean =	92	5	87
8 CORVUS	3.3 fl oz/a A	202	76*	10*	80
AATREX	1 pt/a A	406	85	10	80
ROUNDUP POWERMAX	32 fl oz/a C	505	85	15	80
STATUS	5 oz/a C	706	85	5	80
N-PAK AMS	2.5 % v/v C				
		Mean =	83	10	80
9 BICEP II MAGNUM	1.4 qt/a A	203	65	5	30
ROUNDUP POWERMAX	32 fl oz/a C	306	70	5	60
STATUS	5 oz/a C	605	70	5	50
N-PAK AMS	2.5 % v/v C	701	80	10	60
		Mean =	71	6	50

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-16-2017	May-16-2017	May-30-2017	May-30-2017	Jun-6-2017
Rating Type	CONTRO	PHYGEN	CONTRO	PHYGEN	CONTRO
Rating Unit					
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A2	A2	A3
Days After First/Last Applic.	21 21	21 21	35 35	35 35	42 6
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	1 DE-1	1 DE-1	15 DE-1	15 DE-1	22 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	1	2	3
10 LEXAR EZ	1.75 qt/a	A 204	65	0	60
ROUNDUP POWERMAX	32 fl oz/a	C 301	85	5	80
STATUS	5 oz/a	C 601	85	0	75
N-PAK AMS	2.5 % v/v	C 704	85	0	80
	Mean =		80	1	74
11 ACURON	1.5 qt/a	A 205	70	5	75
HALEX GT	3.6 pt/a	B 403	90	5	80
AATREX	1 pt/a	B 603	90	5	80
ACTIVATOR 90 NIS	0.25 % v/v	B 806	70	0	75
	Mean =		80	4	78
12 UNTREATED CHECK 2		206	0	0	0
		305	0	0	0
		503	0	0	0
		804	0	0	0
	Mean =		0	0	0

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-06 Investigator: Dr. Bill Johnson
 Project ID: EHLCor05-2017 Study Director: Dustin Johnson
 Sponsor Contact: C. Threewits - Syngenta

Pest Type		W Weed		W Weed		W Weed		
Pest Code		AMBTR		AMBTR		AMBTR		
Pest Name		Giant ragweed		Giant ragweed		Giant ragweed		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-6-2017	Jun-13-2017	Jun-13-2017	Jun-20-2017	Jun-20-2017	Jun-28-2017		
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	PHYGEN	CONTRO		
Rating Unit								
Number of Subsamples	1	1	1	1	1	1		
Assessed By	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER		
Rating Timing	A3	A4	A4	A5	A5	A6		
Days After First/Last Applic.	42 6	49 13	49 13	56 20	56 20	64 8		
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Days After Emergence	22 DE-1	29 DE-1	29 DE-1	36 DE-1	36 DE-1	44 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	6	7	8	9	10	11
1 UNTREATED CHECK		101	0	0	0	0	0	0
		405	0	0	0	0	0	0
		604	0	0	0	0	0	0
		803	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 ACURON	1 qt/a A	102	0*	85	0	80	0	85
ROUNDUP POWERMAX	32 fl oz/a C	402	0	83	0	80	0	90
STATUS	5 oz/a C	501	0	50	0	35	0	83
N-PAK AMS	2.5 % v/v C	802	0	75	0	55	0	80
		Mean =	0	73	0	63	0	85
3 ACURON	1.5 qt/a A	103	0*	75	0	65	0	85
ROUNDUP POWERMAX	32 fl oz/a C	401	0	80	0	75	0	88
STATUS	5 oz/a C	602	0	75	0	65	0	88
N-PAK AMS	2.5 % v/v C	805	0	85	0	88	0	93
		Mean =	0	79	0	73	0	89
4 ACURON	2 qt/a A	104	2*	85	0	85	0	95
ROUNDUP POWERMAX	32 fl oz/a C	404	0	85	0	80	0	90
STATUS	5 oz/a C	502	0	85	0	85	0	93
N-PAK AMS	2.5 % v/v C	801	5	85	0	88	0	90
		Mean =	2	85	0	85	0	92
5 ACURON	3 qt/a A	105	0*	88	0	90	0	97
ROUNDUP POWERMAX	32 fl oz/a C	304	0	93	0	90	0	97
STATUS	5 oz/a C	504	0	80	0	85	0	90
N-PAK AMS	2.5 % v/v C	705	0	90	0	90	0	93
		Mean =	0	88	0	89	0	94
6 RESICORE	1.25 qt/a A	106	0*	60	0	50	0	80
ROUNDUP POWERMAX	32 fl oz/a C	302	0	60	0	50	0	83
STATUS	5 oz/a C	506	0	45	0	35	0	83
N-PAK AMS	2.5 % v/v C	702	0	75	0	70	0	85
		Mean =	0	60	0	51	0	83
7 RESICORE	2.5 qt/a A	201	0*	80	0	75	0	90
ROUNDUP POWERMAX	32 fl oz/a C	303	0	80	0	75	0	90
STATUS	5 oz/a C	606	0	70	0	55	0	80
N-PAK AMS	2.5 % v/v C	703	0	80	0	80	0	90
		Mean =	0	78	0	71	0	88
8 CORVUS	3.3 fl oz/a A	202	2*	80	0	65	0	85
AATREX	1 pt/a A	406	0	80	0	70	0	80
ROUNDUP POWERMAX	32 fl oz/a C	505	5	70	0	75	0	80
STATUS	5 oz/a C	706	0	70	0	55	0	83
N-PAK AMS	2.5 % v/v C							
		Mean =	2	75	0	66	0	82
9 BICEP II MAGNUM	1.4 qt/a A	203	0	20	0	30	0	75
ROUNDUP POWERMAX	32 fl oz/a C	306	0	20	0	10	0	70
STATUS	5 oz/a C	605	0	10	0	10	0	83
N-PAK AMS	2.5 % v/v C	701	0	20	0	20	0	80
		Mean =	0	18	0	18	0	77

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type		W Weed		W Weed		W Weed
Pest Code		AMBTR		AMBTR		AMBTR
Pest Name		Giant ragweed		Giant ragweed		Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-6-2017	Jun-13-2017	Jun-13-2017	Jun-20-2017	Jun-20-2017	Jun-28-2017
Rating Type	PHYGEN	CONTRO	PHYGEN	CONTRO	PHYGEN	CONTRO
Rating Unit						
Number of Subsamples	1	1	1	1	1	1
Assessed By	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A3	A4	A4	A5	A5	A6
Days After First/Last Applic.	42 6	49 13	49 13	56 20	56 20	64 8
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	22 DE-1	29 DE-1	29 DE-1	36 DE-1	36 DE-1	44 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate Appl					
No. Name	Rate Unit Code Plot	6	7	8	9	10
10 LEXAR EZ	1.75 qt/a A 204	0	60	0	50	0
ROUNDUP POWERMAX	32 fl oz/a C 301	0	60	0	50	0
STATUS	5 oz/a C 601	0	30	0	10	0
N-PAK AMS	2.5 % v/v C 704	0	60	0	55	0
	Mean =	0	53	0	41	0
11 ACURON	1.5 qt/a A 205	5	100	0	98	0
HALEX GT	3.6 pt/a B 403	5	100	0	99	0
AATREX	1 pt/a B 603	0	100	0	99	0
ACTIVATOR 90 NIS	0.25 % v/v B 806	10	100	0	99	0
	Mean =	5	100	0	99	0
12 UNTREATED CHECK 2	206	0	0	0	0	0
	305	0	0	0	0	0
	503	0	0	0	0	0
	804	0	0	0	0	0
	Mean =	0	0	0	0	0

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jul-5-2017	Jul-12-2017	Jul-18-2017	Jul-26-2017	Aug-1-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit					
Number of Subsamples	1	1	1	1	1
Assessed By	M. ZIMMER	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A7	A8	A9	A10	A11
Days After First/Last Applic.	71 15	78 22	84 28	92 36	98 42
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	51 DE-1	58 DE-1	64 DE-1	72 DE-1	78 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	12	13	14
1 UNTREATED CHECK		101	0	0	0
		405	0	0	0
		604	0	0	0
		803	0	0	0
		Mean =	0	0	0
2 ACURON	1 qt/a A	102	88	88	93
ROUNDUP POWERMAX	32 fl oz/a C	402	93	96	98
STATUS	5 oz/a C	501	85	88	94
N-PAK AMS	2.5 % v/v C	802	83	88	92
		Mean =	87	90	94
3 ACURON	1.5 qt/a A	103	88	88	93
ROUNDUP POWERMAX	32 fl oz/a C	401	90	96	99
STATUS	5 oz/a C	602	90	90	93
N-PAK AMS	2.5 % v/v C	805	95	95	98
		Mean =	91	92	96
4 ACURON	2 qt/a A	104	97	98	98
ROUNDUP POWERMAX	32 fl oz/a C	404	95	98	99
STATUS	5 oz/a C	502	93	98	100
N-PAK AMS	2.5 % v/v C	801	90	95	100
		Mean =	94	97	99
5 ACURON	3 qt/a A	105	98	95	97
ROUNDUP POWERMAX	32 fl oz/a C	304	98	100	99
STATUS	5 oz/a C	504	95	98	100
N-PAK AMS	2.5 % v/v C	705	95	95	100
		Mean =	97	97	99
6 RESICORE	1.25 qt/a A	106	85	85	99
ROUNDUP POWERMAX	32 fl oz/a C	302	85	85	85
STATUS	5 oz/a C	506	88	85	88
N-PAK AMS	2.5 % v/v C	702	83	87	95
		Mean =	85	86	92
7 RESICORE	2.5 qt/a A	201	90	95	99
ROUNDUP POWERMAX	32 fl oz/a C	303	90	90	92
STATUS	5 oz/a C	606	80	83	85
N-PAK AMS	2.5 % v/v C	703	90	88	92
		Mean =	88	89	92
8 CORVUS	3.3 fl oz/a A	202	85	85	98
AATREX	1 pt/a A	406	88	85	88
ROUNDUP POWERMAX	32 fl oz/a C	505	90	90	98
STATUS	5 oz/a C	706	85	83	88
N-PAK AMS	2.5 % v/v C				
		Mean =	87	86	93
9 BICEP II MAGNUM	1.4 qt/a A	203	80	75	75
ROUNDUP POWERMAX	32 fl oz/a C	306	70	60	65
STATUS	5 oz/a C	605	80	83	85
N-PAK AMS	2.5 % v/v C	701	80	80	83
		Mean =	78	75	77

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jul-5-2017	Jul-12-2017	Jul-18-2017	Jul-26-2017	Aug-1-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit					
Number of Subsamples	1	1	1	1	1
Assessed By	M. ZIMMER	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A7	A8	A9	A10	A11
Days After First/Last Applic.	71 15	78 22	84 28	92 36	98 42
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Days After Emergence	51 DE-1	58 DE-1	64 DE-1	72 DE-1	78 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	12	13	14
10 LEXAR EZ	1.75 qt/a	A 204	85	85	88
ROUNDUP POWERMAX	32 fl oz/a	C 301	85	88	94
STATUS	5 oz/a	C 601	88	85	88
N-PAK AMS	2.5 % v/v	C 704	90	95	98
	Mean =		87	88	92
11 ACURON	1.5 qt/a	A 205	98	98	99
HALEX GT	3.6 pt/a	B 403	99	99	100
AATREX	1 pt/a	B 603	98	94	96
ACTIVATOR 90 NIS	0.25 % v/v	B 806	99	99	100
	Mean =		99	98	99
12 UNTREATED CHECK 2		206	0	0	0
		305	0	0	0
		503	0	0	0
		804	0	0	0
	Mean =		0	0	0

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06 Location: TPAC Trial Year: 2017
 Protocol ID: 17S-TPAC-CORN-06 Investigator: Dr. Bill Johnson
 Project ID: EHLCor05-2017 Study Director: Dustin Johnson
 Sponsor Contact: C. Threewits - Syngenta

Pest Type			W Weed				
Pest Code			AMBTR				
Pest Name			Giant ragweed				
Crop Code			ZEAMX	ZEAMX	ZEAMX	ZEAMX	
Crop Name			Corn	Corn	Corn	Corn	
Part Rated			PLOT -	PLOT -	PLOT -	PLOT -	
Rating Date			Aug-18-2017	Oct-19-2017	Oct-19-2017	Oct-19-2017	
Rating Type			CONTRO	YIELD	MOICON	YIELD	
Rating Unit				LB	%	BU	
Number of Subsamples			1	1	1	1	
Assessed By			T. CAMPBELL	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Rating Timing			AC				
Days After First/Last Applic.			115 59	177 121	177 121	177 121	
Trt-Eval Interval			21 DA-A				
Days After Emergence			95 DE-1	157 DE-1	157 DE-1	157 DE-1	
ARM Action Codes			P			TY2	
Number of Decimals			0			1	
Trt	Treatment	Rate	Appl				
No.	Name	Rate Unit	Code Plot	17	18	19	20
1	UNTREATED CHECK		101	0	0.920	1.50	6.7
			405	0	0.300	0.20	2.2
			604	0	0.800	1.30	5.8
			803	0	3.400	15.30	21.2
			Mean =	0	1.355	4.58	9.0
2	ACURON	1 qt/a	A 102	95	31.900	19.70	188.6
	ROUNDUP POWERMAX	32 fl oz/a	C 402	100	37.900	18.90	226.4
	STATUS	5 oz/a	C 501	95	21.200	17.90	128.2
	N-PAK AMS	2.5 % v/v	C 802	90	34.300	20.10	201.8
			Mean =	95	31.325	19.15	186.3
3	ACURON	1.5 qt/a	A 103	95	32.700	20.20	192.2
	ROUNDUP POWERMAX	32 fl oz/a	C 401	100	39.900	19.40	236.8
	STATUS	5 oz/a	C 602	98	28.600	16.40	176.1
	N-PAK AMS	2.5 % v/v	C 805	100	17.700	19.30	105.2
			Mean =	98	29.725	18.83	177.6
4	ACURON	2 qt/a	A 104	98	35.500	19.60	210.2
	ROUNDUP POWERMAX	32 fl oz/a	C 404	100	33.600	18.50	201.7
	STATUS	5 oz/a	C 502	100	28.100	17.50	170.7
	N-PAK AMS	2.5 % v/v	C 801	100	38.500	19.70	227.7
			Mean =	100	33.925	18.83	202.6
5	ACURON	3 qt/a	A 105	95	38.200	19.50	226.5
	ROUNDUP POWERMAX	32 fl oz/a	C 304	100	42.100	19.60	249.3
	STATUS	5 oz/a	C 504	100	24.700	16.90	151.2
	N-PAK AMS	2.5 % v/v	C 705	98	30.600	18.00	184.8
			Mean =	98	33.900	18.50	202.9
6	RESICORE	1.25 qt/a	A 106	98	39.698*	19.24*	235.7*
	ROUNDUP POWERMAX	32 fl oz/a	C 302	85	37.300	19.20	221.9
	STATUS	5 oz/a	C 506	90	35.800	19.10	213.3
	N-PAK AMS	2.5 % v/v	C 702	95	35.400	17.80	214.3
			Mean =	92	37.049	18.84	221.3
7	RESICORE	2.5 qt/a	A 201	100	39.400	18.20	237.3
	ROUNDUP POWERMAX	32 fl oz/a	C 303	98	40.400	19.10	240.7
	STATUS	5 oz/a	C 606	90	34.700	18.10	209.3
	N-PAK AMS	2.5 % v/v	C 703	95	37.800	18.60	226.6
			Mean =	96	38.075	18.50	228.5
8	CORVUS	3.3 fl oz/a	A 202	98	40.600	19.30	241.3
	AATREX	1 pt/a	A 406	95	17.200	18.60	103.1
	ROUNDUP POWERMAX	32 fl oz/a	C 505	100	21.000	17.10	128.2
	STATUS	5 oz/a	C 706	90	32.600	17.90	197.1
	N-PAK AMS	2.5 % v/v	C				
			Mean =	96	27.850	18.23	167.4
9	BICEP II MAGNUM	1.4 qt/a	A 203	60	13.200	19.70	78.1
	ROUNDUP POWERMAX	32 fl oz/a	C 306	60	17.399*	18.66*	103.1*
	STATUS	5 oz/a	C 605	70	12.900	17.50	78.4
	N-PAK AMS	2.5 % v/v	C 701	75	18.800	19.50	111.5
			Mean =	66	15.575	18.84	92.8

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed			
Pest Code	AMBTR			
Pest Name	Giant ragweed			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Crop Name	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Aug-18-2017	Oct-19-2017	Oct-19-2017	Oct-19-2017
Rating Type	CONTRO	YIELD	MOICON	YIELD
Rating Unit		LB	%	BU
Number of Subsamples	1	1	1	1
Assessed By	T. CAMPBELL	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	AC			
Days After First/Last Applic.	115 59	177 121	177 121	177 121
Trt-Eval Interval	21 DA-A			
Days After Emergence	95 DE-1	157 DE-1	157 DE-1	157 DE-1
ARM Action Codes	P			TY2
Number of Decimals	0			1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	17	18
10 LEXAR EZ	1.75 qt/a	A 204	75	31.400
ROUNDUP POWERMAX	32 fl oz/a	C 301	98	33.700
STATUS	5 oz/a	C 601	85	26.637*
N-PAK AMS	2.5 % v/v	C 704	98	33.200
	Mean =		89	31.234
11 ACURON	1.5 qt/a	A 205	100	42.500
HALEX GT	3.6 pt/a	B 403	100	39.900
AATREX	1 pt/a	B 603	95	27.900
ACTIVATOR 90 NIS	0.25 % v/v	B 806	99	37.200
	Mean =		99	36.875
12 UNTREATED CHECK 2		206	0	4.764*
		305	0	1.200
		503	0	1.500
		804	0	1.000
	Mean =		0	2.116
				3.78*
				28.0*
				8.6
				10.5
				7.2
				13.6

Purdue Weed Science

Two Pass Corn Programs

Trial ID: 17S-TPAC-CORN-06	Location: TPAC	Trial Year: 2017
Protocol ID: 17S-TPAC-CORN-06	Investigator: Dr. Bill Johnson	
Project ID: EHLCor05-2017	Study Director: Dustin Johnson	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

MOICON = moisture content

Rating Unit

LB = pound

% = percent

BU = bushel

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

A7 = 7th Assessment According to Trial Schedule

A8 = 8th Assessment According to Trial Schedule

A9 = 9th Assessment According to Trial Schedule

AC = 12th Assessment According to Trial Schedule

ARM Action Codes

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

TY2 = $6.222857 * [18] * (100 - @MVAVGREP([19])) / 84.5$