

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09 Location: SEPAC Trial Year: 2015
 Protocol ID: 15S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

General Trial Information

Study Director: Joey Heneghan **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor
Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Joey Heneghan **Title:** Research Associate
Organization: Purdue University
Address: 915 W State St
City+State/Prov: West Lafayette, IN **Mobile No.:** 317 691 4347
Postal Code: 47907 **E-mail:** jhenegh@purdue.edu
Country: USA United States

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 W State St **Phone No.:** 765 494 4656
City+State/Prov: West Lafayette, IN **Mobile No.:** 765 404 9801
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Country: USA United States

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer P1498AM **BBCH Scale:** BCOR
Planting Date: May-5-2015
Planting Rate, Unit: 32000 S/A **Planting Method:** PLANTD planted
Depth, Unit: 1.75 IN **Planting Equipment:** PP Plot Planter
Row Spacing, Unit: 30 IN **Emergence Date:** May-12-2015
Soil Temperature, Unit: 65 F **Harvested Width, Unit:** 5 FT
Soil Moisture: SLIWET slightly wet, moist **Harvested Length, Unit:** 25 FT

Pest Description

Pest 1 Type: W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed

Pest 2 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 4 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 5 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: Common barnyardgrass

Pest 6 Type: W **Code:** XANSS Xanthium sp.
Common Name: Cocklebur

Pest 7 Type: W **Code:** CONSS Convolvulus sp.
Common Name: Morningglory

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 7
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

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Application Description

	A	B
Application Date:	May-5-2015	Jun-10-2015
Appl. Start Time:	9:30AM	10:45AM
Appl. Stop Time:	10:00 AM	11:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROADC	BROADC
Applied By:	HENEGHAN	DEVKOTA
Air Temperature, Unit:	77 F	81 F
% Relative Humidity:	51	52
Wind Velocity, Unit:	3 MPH	5 MPH
Wind Direction:	NW	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	65 F	72 F
Soil Moisture:	SLIWET	SLIWET
% Cloud Cover:	0	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V6 85
Stage Minimum, Percent:		V5 10
Stage Maximum, Percent:		V7 5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Height, Unit:	1 IN	
Height Minimum, Maximum:	1 2	
Density, Unit:	3 YD2	
Pest 2 Code, Type, Scale:	AMBEL W	AMBEL W
Height, Unit:	2 IN	12 IN
Height Minimum, Maximum:	1 3	2 24
Density, Unit:	20 YD2	5 YD2
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:	3 IN	
Height Minimum, Maximum:	2 4	
Density, Unit:	5 YD2	
Pest 4 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		8 IN
Height Minimum, Maximum:		1 18
Density, Unit:		10 YD2
Pest 5 Code, Type, Scale:	ECHCG W	ECHCG W
Pest 6 Code, Type, Scale:	XANSS W	XANSS W
Pest 7 Code, Type, Scale:	CONSS W	CONSS W

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Trial Year: 2015

Application Equipment

	A	B
Appl. Equipment:	CO2 BP	CO2 BP
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	19 PSI	20 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	11002XR	11002XR
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	H2O
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 liters	1.8 liters
Propellant:	CO2	CO2

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
2	ACURON	3.44	LB/GAL	ZC	3 qt/a	A		90.0 ml/mx	102	401	602	801
3	ACURON	3.44	LB/GAL	ZC	1.5 qt/a	A		45.0 ml/mx	103	403	603	703
4	ACURON	3.44	LB/GAL	ZC	1.5 qt/a	A		45.0 ml/mx	104	301	502	803
6	ACURON	3.44	LB/GAL	ZC	2 qt/a	A		60.0 ml/mx	202	303	601	704
7	BICEP II MAGNUM	5.5	LB/GAL	L	1.5 qt/a	A		45.0 ml/mx	203	302	503	702

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
3	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a	B		54.0 ml/mx	103	403	603	703
	AATREX	4	LB/GAL	L	1 pt/a	B		15.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B		4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	B		45.0 ml/mx				
4	ACURON	3.44	LB/GAL	ZC	1.5 qt/a	B		45.0 ml/mx	104	301	502	803
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B		4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	B		45.0 ml/mx				
5	ACURON	3.44	LB/GAL	ZC	2 qt/a	B		60.0 ml/mx	201	304	501	701
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B		4.5 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	B		45.0 ml/mx				
6	TOUCHDOWN TOTAL	4.17	LBAE/GAL	L	32 fl oz/a	B		30.0 ml/mx	202	303	601	704
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	B		45.0 ml/mx				
7	HALEX GT	4.389	LBAE/GAL	L	3.6 pt/a	B		54.0 ml/mx	203	302	503	702
	AATREX	4	LB/GAL	L	1 pt/a	B		15.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5 % v/v	B		45.0 ml/mx				

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

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check								101	402	504	802

Sort Order: Application Code, Replicate 1

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
431.249	ml	ACURON	3.44	ZC	

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	Sponsor Contact: Syngenta - Steve Mroczkiewicz	

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
135.000	ml	HALEX GT	4.389	L	
37.500	ml	AATREX	4	L	
16.873	ml	ACTIVATOR 90 - NIS	90	L	
281.219	ml	N-PAK - AMS	3.4	SL	
37.500	ml	TOUCHDOWN TOTAL	4.17	L	
56.250	ml	BICEP II MAGNUM	5.5	L	

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

* Product amount calculations increased 25 % for overage adjustment.

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

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CONSS	SETFA	XANSS
Pest Scientific Name	Ambrosia artem>	Convolvulus sp.	Setaria faberi	Xanthium sp.
Pest Name	Common ragweed	Morningglory	Giant foxtail	Cocklebur
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-13-2015	May-19-2015	May-19-2015	May-19-2015
Rating Type	PHYTO	PHYTO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Crop Stage Majority	VE	V1		
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN
Days After First/Last Applic.	8 8	14 14	14 14	14 14
Trt-Eval Interval	8 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	8 DP-1	14 DP-1	14 DP-1	14 DP-1
Days After Emergence	1 DE-1	7 DE-1	7 DE-1	7 DE-1
ARM Action Codes				
Number of Decimals				

Trt Treatment	Rate	Appl	1	2	3	4	5	6
No. Name	Rate Unit	Code Plot						
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
		402	0.0	0.0	0.0	0.0	0.0	0.0
		504	0.0	0.0	0.0	0.0	0.0	0.0
		802	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2 ACURON	3 qt/a	A 102	0.0	0.0	100.0	74.4*	100.0	38.3*
		401	0.0	5.0	100.0	50.0	100.0	20.0
		602	0.0	0.0	100.0	55.0	90.0	55.0
		801	0.0	0.0	100.0	50.0	80.0	40.0
		Mean =	0.0	1.3	100.0	57.4	92.5	38.3
3 ACURON	1.5 qt/a	A 103	0.0	0.0	100.0	80.0	100.0	43.3*
HALEX GT	3.6 pt/a	B 403	0.0	0.0	100.0	65.0	100.0	40.0
AATREX	1 pt/a	B 603	0.0	0.0	100.0	60.0	75.0	60.0
ACTIVATOR 90 - NIS	0.25 % v/v	B 703	0.0	0.0	100.0	40.0	80.0	30.0
N-PAK - AMS	2.5 % v/v	B						
		Mean =	0.0	0.0	100.0	61.3	88.8	43.3
4 ACURON	1.5 qt/a	A 104	0.0	0.0	100.0	100.0	50.0	52.5*
ACURON	1.5 qt/a	B 301	0.0	0.0	100.0	85.0	80.0	52.5*
ACTIVATOR 90 - NIS	0.25 % v/v	B 502	0.0	5.0	100.0	40.0	80.0	65.0
N-PAK - AMS	2.5 % v/v	B 803	0.0	0.0	100.0	35.0	55.0	40.0
		Mean =	0.0	1.3	100.0	65.0	66.3	52.5
5 ACURON	2 qt/a	B 201	0.0	0.0	0.0	0.0	0.0	0.0
ACTIVATOR 90 - NIS	0.25 % v/v	B 304	0.0	0.0	0.0*	0.0	12.2*	0.0*
N-PAK - AMS	2.5 % v/v	B 501	0.0	0.0	0.0	0.0	0.0	0.0
		701	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	3.1	0.0
6 ACURON	2 qt/a	A 202	0.0	5.0	100.0	100.0	100.0	100.0
TOUCHDOWN TOTAL	32 fl oz/a	B 303	0.0	0.0	100.0	90.0	100.0	66.7*
N-PAK - AMS	2.5 % v/v	B 601	0.0	0.0	100.0	65.0	90.0	60.0
		704	0.0	0.0	100.0	60.0	90.0	40.0
		Mean =	0.0	1.3	100.0	78.8	95.0	66.7

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Project ID:	Study Director: Joey Heneghan	
	Sponsor Contact: Syngenta - Steve Mroczkiewicz	

Pest Type			W Weed	W Weed	W Weed	W Weed
Pest Code			AMBEL	CONSS	SETFA	XANSS
Pest Scientific Name			Ambrosia artem>	Convolvulus sp.	Setaria faberi	Xanthium sp.
Pest Name			Common ragweed	Morningglory	Giant foxtail	Cocklebur
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	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
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	May-13-2015	May-19-2015	May-19-2015	May-19-2015	May-19-2015	May-19-2015
Rating Type	PHYTO	PHYTO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	VE	V1				
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN
Days After First/Last Applic.	8 8	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	8 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	8 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1	14 DP-1
Days After Emergence	1 DE-1	7 DE-1	7 DE-1	7 DE-1	7 DE-1	7 DE-1
ARM Action Codes						
Number of Decimals						
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
7 BICEP II MAGNUM	1.5 qt/a A	203	0.0	0.0	100.0	100.0
HALEX GT	3.6 pt/a B	302	0.0	0.0	100.0	100.0
AATREX	1 pt/a B	503	0.0	0.0	100.0	50.0
N-PAK - AMS	2.5 % v/v B	702	0.0	0.0	100.0	40.0
	Mean =		0.0	0.0	100.0	72.5
						82.5
						60.0

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Trial Year: 2015

Trt	Treatment	Rate	Appl	7	8	9	10	11	12
No.	Name	Rate Unit	Code Plot						
1	Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
			402	0.0	0.0	0.0	0.0	0.0	0.0
			504	0.0	0.0	0.0	0.0	0.0	0.0
			802	0.0	0.0	0.0	0.0	0.0	0.0
			Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	ACURON	3 qt/a	A 102	100.0	100.0	100.0	0.0	0.0	100.0
			401	100.0	85.0	85.0	0.0	0.0	100.0
			602	100.0	90.0	85.0	0.0	0.0	100.0
			801	100.0	85.0	90.0	0.0	0.0	100.0
			Mean =	100.0	90.0	90.0	0.0	0.0	100.0
3	ACURON	1.5 qt/a	A 103	100.0	100.0	80.0	0.0	0.0	100.0
	HALEX GT	3.6 pt/a	B 403	100.0	85.0	55.0	0.0	0.0	100.0
	AATREX	1 pt/a	B 603	100.0	70.0	80.0	0.0	0.0	100.0
	ACTIVATOR 90 - NIS	0.25 % v/v	B 703	100.0	60.0	70.0	0.0	0.0	100.0
	N-PAK - AMS	2.5 % v/v	B						
			Mean =	100.0	78.8	71.3	0.0	0.0	100.0
4	ACURON	1.5 qt/a	A 104	100.0	75.0	80.0	0.0	0.0	100.0
	ACURON	1.5 qt/a	B 301	100.0	65.0	90.0	0.0	0.0	100.0
	ACTIVATOR 90 - NIS	0.25 % v/v	B 502	100.0	65.0	90.0	0.0	0.0	100.0
	N-PAK - AMS	2.5 % v/v	B 803	100.0	50.0	90.0	0.0	0.0	100.0
			Mean =	100.0	63.8	87.5	0.0	0.0	100.0
5	ACURON	2 qt/a	B 201	0.0	0.0	0.0	0.0	25.0	50.0
	ACTIVATOR 90 - NIS	0.25 % v/v	B 304	0.0*	0.0	0.0	0.0	5.0	90.0
	N-PAK - AMS	2.5 % v/v	B 501	0.0	0.0	0.0	5.0	5.0	65.0
			701	0.0	0.0	0.0	5.0	5.0	50.0
			Mean =	0.0	0.0	0.0	2.5	10.0	63.8
6	ACURON	2 qt/a	A 202	100.0	90.0	100.0	0.0	0.0	100.0
	TOUCHDOWN TOTAL	32 fl oz/a	B 303	100.0	90.0	95.0	0.0	0.0	100.0
	N-PAK - AMS	2.5 % v/v	B 601	100.0	75.0	80.0	0.0	0.0	100.0
			704	100.0	95.0	80.0	0.0	0.0	100.0
			Mean =	100.0	87.5	88.8	0.0	0.0	100.0

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Pest Type	W Weed	W Weed	W Weed			W Weed		
Pest Code	AMBEL	SETFA	XANSS			AMBEL		
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Xanthium sp.			Ambrosia artem>		
Pest Name	Common ragweed	Giant foxtail	Cocklebur			Common ragweed		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	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		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-10-2015	Jun-10-2015	Jun-10-2015	Jun-16-2015	Jun-24-2015	Jun-24-2015		
Rating Type	CONTRO	CONTRO	CONTRO	PHYTO	PHYTO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority				V7	V9			
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN		
Days After First/Last Applic.	36 36	36 36	36 36	42 6	50 14	50 14		
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	6 DA-B	14 DA-B	14 DA-B		
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	42 DP-1	50 DP-1	50 DP-1		
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	35 DE-1	43 DE-1	43 DE-1		
ARM Action Codes								
Number of Decimals								
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
7 BICEP II MAGNUM	1.5 qt/a	A 203	100.0	80.0	85.0	0.0	0.0	100.0
HALEX GT	3.6 pt/a	B 302	100.0	85.0	85.0	0.0	0.0	100.0
AATREX	1 pt/a	B 503	100.0	80.0	75.0	0.0	0.0	100.0
N-PAK - AMS	2.5 % v/v	B 702	100.0	70.0	60.0	0.0	0.0	100.0
		Mean =	100.0	78.8	76.3	0.0	0.0	100.0

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	W Weed	W Weed	W Weed	W Weed		
Pest Type	SETFA	ECHCG	AMBEL	SETFA		
Pest Code	SETFA	ECHCG	AMBEL	SETFA		
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia artem>	Setaria faberi		
Pest Name	Giant foxtail	Common barnyar>	Common ragweed	Giant foxtail		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	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
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-24-2015	Jun-24-2015	Jul-6-2015	Jul-6-2015	Oct-20-2015	Oct-20-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	MOICON
Rating Unit	%	%	%	%	LB/PLOT	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority						
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	IKLEY/HENEG	IKLEY/HENEG
Days After First/Last Applic.	50 14	50 14	62 26	62 26	168 132	168 132
Trt-Eval Interval	14 DA-B	14 DA-B	26 DA-B	26 DA-B		
Plant-Eval Interval	50 DP-1	50 DP-1	62 DP-1	62 DP-1	168 DP-1	168 DP-1
Days After Emergence	43 DE-1	43 DE-1	55 DE-1	55 DE-1	161 DE-1	161 DE-1
ARM Action Codes						
Number of Decimals					2	2
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
1 Untreated Check		101	0.0	0.0	0.0	0.0
		402	0.0	0.0	0.0	0.0
		504	0.0	0.0	0.0	16.24*
		802	0.0	0.0	0.0	15.17
		Mean =	0.0	0.0	0.0	16.86
2 ACURON	3 qt/a	A 102	100.0	100.0	100.0	100.0
		401	90.0	75.0	100.0	75.0
		602	100.0	100.0	100.0	100.0
		801	90.0	100.0	100.0	90.0
		Mean =	95.0	93.8	100.0	91.3
3 ACURON	1.5 qt/a	A 103	100.0	100.0	100.0	100.0
HALEX GT	3.6 pt/a	B 403	100.0	100.0	100.0	100.0
AATREX	1 pt/a	B 603	100.0	100.0	100.0	100.0
ACTIVATOR 90 - NIS	0.25 % v/v	B 703	100.0	100.0	100.0	100.0
N-PAK - AMS	2.5 % v/v	B				
		Mean =	100.0	100.0	100.0	100.0
4 ACURON	1.5 qt/a	A 104	90.0	85.0	100.0	90.0
ACURON	1.5 qt/a	B 301	65.0	60.0	100.0	70.0
ACTIVATOR 90 - NIS	0.25 % v/v	B 502	70.0	70.0	100.0	75.0
N-PAK - AMS	2.5 % v/v	B 803	95.0	100.0	100.0	100.0
		Mean =	80.0	78.8	100.0	83.8
5 ACURON	2 qt/a	B 201	50.0	50.0	95.0	25.0
ACTIVATOR 90 - NIS	0.25 % v/v	B 304	50.0	50.0	100.0	20.0
N-PAK - AMS	2.5 % v/v	B 501	25.0	50.0	100.0	40.0
		701	25.0	25.0	100.0	35.0
		Mean =	37.5	43.8	98.8	30.0
6 ACURON	2 qt/a	A 202	100.0	100.0	100.0	100.0
TOUCHDOWN TOTAL	32 fl oz/a	B 303	100.0	100.0	100.0	100.0
N-PAK - AMS	2.5 % v/v	B 601	100.0	100.0	100.0	100.0
		704	100.0	100.0	100.0	100.0
		Mean =	100.0	100.0	100.0	100.0

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09	Location: SEPAC	Trial Year: 2015
Protocol ID: 15S-SEP-NTC-09	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Joey Heneghan	
	Sponsor Contact: Syngenta - Steve Mroczkiewicz	

Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Crop Stage Majority Assessed By Days After First/Last Applic. Trt-Eval Interval Plant-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	ZEAMX BCOR Zea mays Corn PLOT - Oct-20-2015 YIELD BU 1 IKLEY/HENEG 168 132 168 DP-1 161 DE-1 TY1 1																									
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Trt</td> <td style="width: 45%;">Treatment</td> <td style="width: 15%;">Rate</td> <td style="width: 15%;">Appl</td> <td style="width: 10%;"></td> </tr> <tr> <td>No.</td> <td>Name</td> <td>Rate Unit</td> <td>Code Plot</td> <td></td> </tr> </table>	Trt	Treatment	Rate	Appl		No.	Name	Rate Unit	Code Plot		19															
Trt	Treatment	Rate	Appl																							
No.	Name	Rate Unit	Code Plot																							
1 Untreated Check	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;">101</td> <td style="width: 10%;">91.8</td> </tr> <tr> <td></td> <td></td> <td></td> <td>402</td> <td>136.5</td> </tr> <tr> <td></td> <td></td> <td></td> <td>504</td> <td>103.5*</td> </tr> <tr> <td></td> <td></td> <td></td> <td>802</td> <td>95.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Mean =</td> <td>106.8</td> </tr> </table>				101	91.8				402	136.5				504	103.5*				802	95.4				Mean =	106.8
			101	91.8																						
			402	136.5																						
			504	103.5*																						
			802	95.4																						
			Mean =	106.8																						
2 ACURON	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">3 qt/a</td> <td style="width: 15%;">A</td> <td style="width: 15%;">102</td> <td style="width: 10%;">260.3</td> </tr> <tr> <td></td> <td></td> <td>401</td> <td>243.1</td> </tr> <tr> <td></td> <td></td> <td>602</td> <td>245.0</td> </tr> <tr> <td></td> <td></td> <td>801</td> <td>247.1</td> </tr> <tr> <td></td> <td></td> <td>Mean =</td> <td>248.9</td> </tr> </table>	3 qt/a	A	102	260.3			401	243.1			602	245.0			801	247.1			Mean =	248.9					
3 qt/a	A	102	260.3																							
		401	243.1																							
		602	245.0																							
		801	247.1																							
		Mean =	248.9																							
3 ACURON HALEX GT AATREX ACTIVATOR 90 - NIS N-PAK - AMS	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">1.5 qt/a</td> <td style="width: 15%;">A</td> <td style="width: 15%;">103</td> <td style="width: 10%;">213.3</td> </tr> <tr> <td>3.6 pt/a</td> <td>B</td> <td>403</td> <td>228.6</td> </tr> <tr> <td>1 pt/a</td> <td>B</td> <td>603</td> <td>221.8</td> </tr> <tr> <td>0.25 % v/v</td> <td>B</td> <td>703</td> <td>250.0</td> </tr> <tr> <td>2.5 % v/v</td> <td>B</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Mean =</td> <td>228.4</td> </tr> </table>	1.5 qt/a	A	103	213.3	3.6 pt/a	B	403	228.6	1 pt/a	B	603	221.8	0.25 % v/v	B	703	250.0	2.5 % v/v	B					Mean =	228.4	
1.5 qt/a	A	103	213.3																							
3.6 pt/a	B	403	228.6																							
1 pt/a	B	603	221.8																							
0.25 % v/v	B	703	250.0																							
2.5 % v/v	B																									
		Mean =	228.4																							
4 ACURON ACURON ACTIVATOR 90 - NIS N-PAK - AMS	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">1.5 qt/a</td> <td style="width: 15%;">A</td> <td style="width: 15%;">104</td> <td style="width: 10%;">261.0</td> </tr> <tr> <td>1.5 qt/a</td> <td>B</td> <td>301</td> <td>258.2</td> </tr> <tr> <td>0.25 % v/v</td> <td>B</td> <td>502</td> <td>234.7</td> </tr> <tr> <td>2.5 % v/v</td> <td>B</td> <td>803</td> <td>252.4</td> </tr> <tr> <td></td> <td></td> <td>Mean =</td> <td>251.6</td> </tr> </table>	1.5 qt/a	A	104	261.0	1.5 qt/a	B	301	258.2	0.25 % v/v	B	502	234.7	2.5 % v/v	B	803	252.4			Mean =	251.6					
1.5 qt/a	A	104	261.0																							
1.5 qt/a	B	301	258.2																							
0.25 % v/v	B	502	234.7																							
2.5 % v/v	B	803	252.4																							
		Mean =	251.6																							
5 ACURON ACTIVATOR 90 - NIS N-PAK - AMS	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">2 qt/a</td> <td style="width: 15%;">B</td> <td style="width: 15%;">201</td> <td style="width: 10%;">125.7</td> </tr> <tr> <td>0.25 % v/v</td> <td>B</td> <td>304</td> <td>209.1</td> </tr> <tr> <td>2.5 % v/v</td> <td>B</td> <td>501</td> <td>176.7</td> </tr> <tr> <td></td> <td></td> <td>701</td> <td>210.3</td> </tr> <tr> <td></td> <td></td> <td>Mean =</td> <td>180.5</td> </tr> </table>	2 qt/a	B	201	125.7	0.25 % v/v	B	304	209.1	2.5 % v/v	B	501	176.7			701	210.3			Mean =	180.5					
2 qt/a	B	201	125.7																							
0.25 % v/v	B	304	209.1																							
2.5 % v/v	B	501	176.7																							
		701	210.3																							
		Mean =	180.5																							
6 ACURON TOUCHDOWN TOTAL N-PAK - AMS	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">2 qt/a</td> <td style="width: 15%;">A</td> <td style="width: 15%;">202</td> <td style="width: 10%;">261.5</td> </tr> <tr> <td>32 fl oz/a</td> <td>B</td> <td>303</td> <td>238.7</td> </tr> <tr> <td>2.5 % v/v</td> <td>B</td> <td>601</td> <td>250.2</td> </tr> <tr> <td></td> <td></td> <td>704</td> <td>242.6</td> </tr> <tr> <td></td> <td></td> <td>Mean =</td> <td>248.3</td> </tr> </table>	2 qt/a	A	202	261.5	32 fl oz/a	B	303	238.7	2.5 % v/v	B	601	250.2			704	242.6			Mean =	248.3					
2 qt/a	A	202	261.5																							
32 fl oz/a	B	303	238.7																							
2.5 % v/v	B	601	250.2																							
		704	242.6																							
		Mean =	248.3																							

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09	Location: SEPAC	Trial Year: 2015
Protocol ID: 15S-SEP-NTC-09	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Joey Heneghan	
	Sponsor Contact: Syngenta - Steve Mroczkiewicz	

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Code	ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Part Rated	PLOT -
Rating Date	Oct-20-2015
Rating Type	YIELD
Rating Unit	BU
Number of Subsamples	1
Crop Stage Majority	
Assessed By	IKLEY/HENEG
Days After First/Last Applic.	168 132
Trt-Eval Interval	
Plant-Eval Interval	168 DP-1
Days After Emergence	161 DE-1
ARM Action Codes	TY1
Number of Decimals	1
Trt Treatment	Rate Appl
No. Name	Rate Unit Code Plot
	19
7 BICEP II MAGNUM	1.5 qt/a A 203
HALEX GT	3.6 pt/a B 302
AATREX	1 pt/a B 503
N-PAK - AMS	2.5 % v/v B 702
	Mean =
	226.8
	259.8
	264.2
	269.6
	255.1

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09 Location: SEPAC Trial Year: 2015
 Protocol ID: 15S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

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

Pest Code
 AMBEL, Ambrosia artemisiifolia, = US
 CONSS, Convolvulus sp., = US
 SETFA, Setaria faberi, = US
 XANSS, Xanthium sp., = US
 ECHCG, Echinochloa crus-galli, = US

Crop Code
 ZEAMX, BCOR, Zea mays, = US

Part Rated
 PLOT = plot

Rating Type
 CONTRO = control / burndown or knockdown
 YIELD = yield
 MOICON = moisture content

Rating Unit
 % = percent
 LB/PLOT = pounds per plot
 BU = bushel

Plant-Eval Interval
 8 DP-1 = 1 ZEAMX May-5-2015
 14 DP-1 = 1 ZEAMX May-5-2015
 36 DP-1 = 1 ZEAMX May-5-2015
 42 DP-1 = 1 ZEAMX May-5-2015
 50 DP-1 = 1 ZEAMX May-5-2015
 62 DP-1 = 1 ZEAMX May-5-2015
 168 DP-1 = 1 ZEAMX May-5-2015

ARM Action Codes
 TY1 = 6.222857*[17]*(100-[18])/84.5

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBEL	CONSS	SETFA	XANSS				
Pest Scientific Name	Ambrosia artem>	Convolvulus sp.	Setaria faberi	Xanthium sp.				
Pest Name	Common ragweed	Morningglory	Giant foxtail	Cocklebur				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn				
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -				
Rating Date	May-13-2015	May-19-2015	May-19-2015	May-19-2015				
Rating Type	PHYTO	PHYTO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Crop Stage Majority	VE	V1						
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN				
Days After First/Last Applic.	8 8	14 14	14 14	14 14				
Trt-Eval Interval	8 DA-A	14 DA-A	14 DA-A	14 DA-A				
Plant-Eval Interval	8 DP-1	14 DP-1	14 DP-1	14 DP-1				
Days After Emergence	1 DE-1	7 DE-1	7 DE-1	7 DE-1				
ARM Action Codes								
Number of Decimals								
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0.0 a	0.0 a	0.0 b	0.0 b	0.0 c	0.0 b
2 ACURON	3 qt/a	A	0.0 a	1.3 a	100.0 a	57.4 a	92.5 a	38.3 a
3 ACURON	1.5 qt/a	A	0.0 a	0.0 a	100.0 a	61.3 a	88.8 a	43.3 a
HALEX GT	3.6 pt/a	B						
AATREX	1 pt/a	B						
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
4 ACURON	1.5 qt/a	A	0.0 a	1.3 a	100.0 a	65.0 a	66.3 b	52.5 a
ACURON	1.5 qt/a	B						
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
5 ACURON	2 qt/a	B	0.0 a	0.0 a	0.0 b	0.0 b	3.1 c	0.0 b
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
6 ACURON	2 qt/a	A	0.0 a	1.3 a	100.0 a	78.8 a	95.0 a	66.7 a
TOUCHDOWN TOTAL	32 fl oz/a	B						
N-PAK - AMS	2.5 % v/v	B						

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09 Location: SEPAC Trial Year: 2015
 Protocol ID: 15S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

W Weed	W Weed	W Weed	W Weed
AMBEL	CONSS	SETFA	XANSS
Ambrosia artem>	Convolvulus sp.	Setaria faberi	Xanthium sp.
Common ragweed	Morningglory	Giant foxtail	Cocklebur
ZEAMX	ZEAMX	ZEAMX	ZEAMX
BCOR	BCOR	BCOR	BCOR
Zea mays	Zea mays	Zea mays	Zea mays
Corn	Corn	Corn	Corn
PLOT -	PLOT -	PLOT -	PLOT -
May-19-2015	May-19-2015	May-19-2015	May-19-2015
PHYTO	PHYTO	PHYTO	PHYTO
CONTRO	CONTRO	CONTRO	CONTRO
%	%	%	%
1	1	1	1
HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN
8 8	14 14	14 14	14 14
8 DA-A	14 DA-A	14 DA-A	14 DA-A
8 DP-1	14 DP-1	14 DP-1	14 DP-1
1 DE-1	7 DE-1	7 DE-1	7 DE-1
Rate	Rate	Rate	Rate
Appl	Appl	Appl	Appl
Code	Code	Code	Code
1	2	3	4
5	6		
7 BICEP II MAGNUM	0.0 a	0.0 a	100.0 a
HALEX GT			72.5 a
AATREX			82.5 a
N-PAK - AMS			60.0 a
LSD P=.05	0.00	2.56	0.00
Standard Deviation	0.00	1.73	0.00
CV	0.0	322.03	0.0
Bartlett's X2	0.0	0.0	0.0
P(Bartlett's X2)	.	.	0.091
Skewness	.	2.6865*	-0.0303
Kurtosis	.	5.6138*	-0.702
Replicate F	0.000	0.300	0.000
Replicate Prob(F)	1.0000	0.8250	1.0000
Treatment F	0.000	0.600	0.000
Treatment Prob(F)	1.0000	0.7268	1.0000
			7.226
			3.894
			1.669
			0.0025
			0.0275
			87.202
			13.650
			0.0001
			0.0001
			0.0002

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09
 Protocol ID: 15S-SEP-NTC-09
 Project ID:

Location: SEPAC
 Investigator: Dr. Bill Johnson
 Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

Trial Year: 2015

Tri#	Treatment Name	Rate	Unit	Appl Code	W Weed AMBEL Ambrosia artem> Common ragweed	W Weed SETFA Setaria faberi Giant foxtail	W Weed XANSS Xanthium sp. Cocklebur	ZEAMX BCOR Zea mays Corn	ZEAMX BCOR Zea mays Corn	ZEAMX BCOR Zea mays Corn	ZEAMX BCOR Zea mays Corn	W Weed AMBEL Ambrosia artem> Common ragweed
1	Untreated Check				0.0 b	0.0 c	0.0 c	0.0 a	0.0 b	0.0 c	0.0 c	
2	ACURON	3 qt/a		A	100.0 a	90.0 a	90.0 a	0.0 a	0.0 b	100.0 a	100.0 a	
3	ACURON HALEX GT AATREX ACTIVATOR 90 - NIS N-PAK - AMS	1.5 qt/a 3.6 pt/a 1 pt/a 0.25 % v/v 2.5 % v/v		A B B B B	100.0 a	78.8 a	71.3 b	0.0 a	0.0 b	100.0 a	100.0 a	
4	ACURON ACURON ACTIVATOR 90 - NIS N-PAK - AMS	1.5 qt/a 1.5 qt/a 0.25 % v/v 2.5 % v/v		A B B B	100.0 a	63.8 b	87.5 a	0.0 a	0.0 b	100.0 a	100.0 a	
5	ACURON ACTIVATOR 90 - NIS N-PAK - AMS	2 qt/a 0.25 % v/v 2.5 % v/v		B B B	0.0 b	0.0 c	0.0 c	2.5 a	10.0 a	63.8 b	63.8 b	
6	ACURON TOUCHDOWN TOTAL N-PAK - AMS	2 qt/a 32 fl oz/a 2.5 % v/v		A B B	100.0 a	87.5 a	88.8 a	0.0 a	0.0 b	100.0 a	100.0 a	

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09
 Protocol ID: 15S-SEP-NTC-09
 Project ID:

Location: SEPAC
 Investigator: Dr. Bill Johnson
 Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

Trial Year: 2015

Pest Type	W Weed	W Weed	W Weed			W Weed		
Pest Code	AMBEL	SETFA	XANSS			AMBEL		
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Xanthium sp.			Ambrosia artem>		
Pest Name	Common ragweed	Giant foxtail	Cocklebur			Common ragweed		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	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		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-10-2015	Jun-10-2015	Jun-10-2015	Jun-16-2015	Jun-24-2015	Jun-24-2015		
Rating Type	CONTRO	CONTRO	CONTRO	PHYTO	PHYTO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority				V7	V9			
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN		
Days After First/Last Applic.	36 36	36 36	36 36	42 6	50 14	50 14		
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	6 DA-B	14 DA-B	14 DA-B		
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	42 DP-1	50 DP-1	50 DP-1		
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	35 DE-1	43 DE-1	43 DE-1		
ARM Action Codes								
Number of Decimals								
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
7 BICEP II MAGNUM	1.5 qt/a	A	100.0 a	78.8 a	76.3 ab	0.0 a	0.0 b	100.0 a
HALEX GT	3.6 pt/a	B						
AATREX	1 pt/a	B						
N-PAK - AMS	2.5 % v/v	B						
LSD P=.05	0.00		11.84	11.91	1.62	5.62	10.60	
Standard Deviation	0.00		7.97	8.02	1.09	3.78	7.13	
CV	0.0		13.99	13.56	305.51	264.58	8.86	
Bartlett's X2	0.0		4.027	2.619	0.0	0.0	0.0	
P(Bartlett's X2)	.		0.402	0.623	.	.	.	
Skewness	-1.1644*		-0.7245	-0.8102	3.5196*	4.5192*	-1.6595*	
Kurtosis	-0.702		-1.2301	-1.1995	11.1834*	21.8788*	1.2081	
Replicate F	0.000		3.089	1.162	1.000	1.000	1.000	
Replicate Prob(F)	1.0000		0.0533	0.3516	0.4155	0.4155	0.4155	
Treatment F	0.000		99.844	104.407	3.000	4.000	113.468	
Treatment Prob(F)	1.0000		0.0001	0.0001	0.0327	0.0102	0.0001	

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09
 Protocol ID: 15S-SEP-NTC-09
 Project ID:

Location: SEPAC Trial Year: 2015
 Investigator: Dr. Bill Johnson
 Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBEL	SETFA				
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia artem>	Setaria faberi				
Pest Name	Giant foxtail	Common barnyar>	Common ragweed	Giant foxtail				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	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		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-24-2015	Jun-24-2015	Jul-6-2015	Jul-6-2015	Oct-20-2015	Oct-20-2015		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	MOICON		
Rating Unit	%	%	%	%	LB/PLOT	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority								
Assessed By	HENEGHAN	HENEGHAN	HENEGHAN	HENEGHAN	IKLEY/HENEG	IKLEY/HENEG		
Days After First/Last Applic.	50 14	50 14	62 26	62 26	168 132	168 132		
Trt-Eval Interval	14 DA-B	14 DA-B	26 DA-B	26 DA-B				
Plant-Eval Interval	50 DP-1	50 DP-1	62 DP-1	62 DP-1	168 DP-1	168 DP-1		
Days After Emergence	43 DE-1	43 DE-1	55 DE-1	55 DE-1	161 DE-1	161 DE-1		
ARM Action Codes								
Number of Decimals					2	2		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	13	14	15	16	17	18
1 Untreated Check			0.0 d	0.0 d	0.0 b	0.0 d	16.86 c	14.21 a
2 ACURON	3 qt/a	A	95.0 a	93.8 a	100.0 a	91.3 ab	39.45 a	14.33 a
3 ACURON	1.5 qt/a	A	100.0 a	100.0 a	100.0 a	100.0 a	36.13 a	14.11 a
HALEX GT	3.6 pt/a	B						
AATREX	1 pt/a	B						
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
4 ACURON	1.5 qt/a	A	80.0 b	78.8 b	100.0 a	83.8 b	39.89 a	14.37 a
ACURON	1.5 qt/a	B						
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
5 ACURON	2 qt/a	B	37.5 c	43.8 c	98.8 a	30.0 c	28.79 b	14.94 a
ACTIVATOR 90 - NIS	0.25 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
6 ACURON	2 qt/a	A	100.0 a	100.0 a	100.0 a	100.0 a	39.54 a	14.74 a
TOUCHDOWN TOTAL	32 fl oz/a	B						
N-PAK - AMS	2.5 % v/v	B						

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09	Location: SEPAC	Trial Year: 2015
Protocol ID: 15S-SEP-NTC-09	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Joey Heneghan	
	Sponsor Contact: Syngenta - Steve Mroczkiewicz	

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBEL	SETFA			
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia artem>	Setaria faberi			
Pest Name	Giant foxtail	Common barnyar>	Common ragweed	Giant foxtail			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	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	
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	
Rating Date	Jun-24-2015	Jun-24-2015	Jul-6-2015	Jul-6-2015	Oct-20-2015	Oct-20-2015	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	MOICON	
Rating Unit	%	%	%	%	LB/PLOT	%	
Number of Subsamples	1	1	1	1	1	1	
Crop Stage Majority							
Assessed By	HENEZHAN	HENEZHAN	HENEZHAN	HENEZHAN	IKLEY/HENEG	IKLEY/HENEG	
Days After First/Last Applic.	50 14	50 14	62 26	62 26	168 132	168 132	
Trt-Eval Interval	14 DA-B	14 DA-B	26 DA-B	26 DA-B			
Plant-Eval Interval	50 DP-1	50 DP-1	62 DP-1	62 DP-1	168 DP-1	168 DP-1	
Days After Emergence	43 DE-1	43 DE-1	55 DE-1	55 DE-1	161 DE-1	161 DE-1	
ARM Action Codes							
Number of Decimals					2	2	
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	13	14	15	16	
7 BICEP II MAGNUM	1.5 qt/a	A	100.0 a	100.0 a	100.0 a	100.0 a	
HALEX GT	3.6 pt/a	B				40.72 a	
AATREX	1 pt/a	B					
N-PAK - AMS	2.5 % v/v	B					
LSD P=.05	12.20		14.71	1.40	10.64	4.766	0.580
Standard Deviation	8.21		9.86	0.94	7.16	3.194	0.391
CV	11.22		13.37	1.1	9.93	9.26	2.69
Bartlett's X2	2.484		0.46	0.0	0.474	10.183	6.057
P(Bartlett's X2)	0.289		0.794	.	0.789	0.117	0.417
Skewness	-1.1255*		-1.0945*	-2.1556*	-1.029*	-1.5667*	0.1931
Kurtosis	-0.3329		-0.2632	2.8512*	-0.6281	1.4764	-0.1453
Replicate F	0.794		0.695	1.000	2.043	1.502	1.235
Replicate Prob(F)	0.5130		0.5680	0.4155	0.1439	0.2500	0.3260
Treatment F	91.994		60.528	6374.334	127.491	30.305	3.214
Treatment Prob(F)	0.0001		0.0001	0.0001	0.0001	0.0001	0.0252

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 Project ID:

Location: SEPAC
 Investigator: Dr. Bill Johnson
 Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

Trial Year: 2015

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Scientific Name		Zea mays	
Crop Name		Corn	
Part Rated		PLOT -	
Rating Date		Oct-20-2015	
Rating Type		YIELD	
Rating Unit		BU	
Number of Subsamples		1	
Crop Stage Majority			
Assessed By		IKLEY/HENEG	
Days After First/Last Applic.		168 132	
Trt-Eval Interval			
Plant-Eval Interval		168 DP-1	
Days After Emergence		161 DE-1	
ARM Action Codes		TY1	
Number of Decimals		1	
Trt No.	Treatment Name	Rate Rate Unit	Appl Code
1	Untreated Check		19
2	ACURON	3 qt/a A	106.8 c
3	ACURON	1.5 qt/a A	248.9 a
	HALEX GT	3.6 pt/a B	
	AATREX	1 pt/a B	
	ACTIVATOR 90 - NIS	0.25 % v/v B	
	N-PAK - AMS	2.5 % v/v B	
4	ACURON	1.5 qt/a A	228.4 a
	ACURON	1.5 qt/a B	
	ACTIVATOR 90 - NIS	0.25 % v/v B	
	N-PAK - AMS	2.5 % v/v B	
5	ACURON	2 qt/a B	251.6 a
	ACTIVATOR 90 - NIS	0.25 % v/v B	
	N-PAK - AMS	2.5 % v/v B	
6	ACURON	2 qt/a A	180.5 b
	TOUCHDOWN TOTAL	32 fl oz/a B	248.3 a
	N-PAK - AMS	2.5 % v/v B	

Purdue University Weed Science

Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09
 Protocol ID: 15S-SEP-NTC-09
 Project ID:

Location: SEPAC
 Investigator: Dr. Bill Johnson
 Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

Trial Year: 2015

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Code		ZEAMX	
BBCH Scale		BCOR	
Crop Scientific Name		Zea mays	
Crop Name		Corn	
Part Rated		PLOT -	
Rating Date		Oct-20-2015	
Rating Type		YIELD	
Rating Unit		BU	
Number of Subsamples		1	
Crop Stage Majority			
Assessed By		IKLEY/HENEG	
Days After First/Last Applic.		168 132	
Trt-Eval Interval			
Plant-Eval Interval		168 DP-1	
Days After Emergence		161 DE-1	
ARM Action Codes		TY1	
Number of Decimals		1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	19
7 BICEP II MAGNUM	1.5 qt/a	A	255.1 a
HALEX GT	3.6 pt/a	B	
AATREX	1 pt/a	B	
N-PAK - AMS	2.5 % v/v	B	
LSD P=.05			30.30
Standard Deviation			20.31
CV			9.36
Bartlett's X2			10.144
P(Bartlett's X2)			0.119
Skewness			-1.5766*
Kurtosis			1.4947
Replicate F			1.390
Replicate Prob(F)			0.2800
Treatment F			29.492
Treatment Prob(F)			0.0001

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Showcase Corn Programs - ZCOR81AD-2015US

Trial ID: 15S-SEP-NTC-09
 Protocol ID: 15S-SEP-NTC-09
 Project ID:

Location: SEPAC
 Investigator: Dr. Bill Johnson
 Study Director: Joey Heneghan
 Sponsor Contact: Syngenta - Steve Mroczkiewicz

Trial Year: 2015

Pest Type

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

Pest Code

AMBEL, Ambrosia artemisiifolia, = US
 CONSS, Convolvulus sp., = US
 SETFA, Setaria faberi, = US
 XANSS, Xanthium sp., = US
 ECHCG, Echinochloa crus-galli, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Part Rated

PLOT = plot

Rating Type

CONTRO = control / burndown or knockdown
 YIELD = yield
 MOICON = moisture content

Rating Unit

% = percent
 LB/PLOT = pounds per plot
 BU = bushel

Plant-Eval Interval

8 DP-1 = 1 ZEAMX May-5-2015
 14 DP-1 = 1 ZEAMX May-5-2015
 36 DP-1 = 1 ZEAMX May-5-2015
 42 DP-1 = 1 ZEAMX May-5-2015
 50 DP-1 = 1 ZEAMX May-5-2015
 62 DP-1 = 1 ZEAMX May-5-2015
 168 DP-1 = 1 ZEAMX May-5-2015

ARM Action Codes

TY1 = 6.222857*[17]*(100-[18])/84.5