

Purdue University Weed Science

2014 CORN SHOWCASE PROGRAMS

Trial ID: 14S-SEP-NTC-09 Location: SEPAC Trial Year: 2014
 Protocol ID: 14S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: DOW

General Trial Information

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

Discipline: H herbicide
Initiation Date: 5/8/2014

Trial Location

City: Butlerville **Country:** USA United States
State/Prov.: Indiana
Postal Code: 47223

Contacts

Study Director: Joe Ikley **Title:** Research Associate
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

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

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer P1184AM1
Description: RR/LL

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

Soil Temperature, Unit: 80 F
Soil Moisture: WET wet

Planting Date: 5/27/2014
Planting Method: DIRDRI direct drilled
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 6/2/2014
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 25 FT

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed

Pest 3 Type: W **Code:** IPOSS *Ipomoea* sp.
Common Name: Morning glory

Pest 4 Type: W **Code:** PANDI *Panicum dichotomiflorum*
Common Name: Fall panicum

Pest 5 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Heart-leaf cocklebur

Pest 6 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Site and Design

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

Study Design: RACOBL Randomized Complete Block (RCB)

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Soil Description

Description Name: SEPAC-U41
% Sand: 20 **% OM:** 1.3 **Texture:** SIL silt loam
% Silt: 65 **pH:** 6.5 **Soil Name:** Avonburg
% Clay: 15 **CEC:** 5.7 **Fert. Level:** F fair
Soil Drainage: P poor

Application Description

	A	B	C	D
Application Date:	5/8/2014	5/27/2014	6/12/2014	6/18/2014
Appl. Start Time:	7:30	13:30	15:00	10:00
Appl. Stop Time:	8:30 AM	2:30 PM	3:15 PM	10:30 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	7 DPP	PRE	2-4" WEEDS	4-6" WEEDS
Application Placement:	BROADC	BROADC	BROADC	BROADC
Applied By:	Spaunhorst	Devkota	Devkota	Campbell
Air Temperature, Unit:	67 F	87 F	76 F	90 F
% Relative Humidity:	70	44	63	55
Wind Velocity, Unit:	3 MPH	3 MPH	5 MPH	3 MPH
Wind Direction:	S	WSW	WNW	SW
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	64 F	82 F	76 F	76 F
Soil Moisture:	DRY	SLIWET	SLIWET	SLIWET
% Cloud Cover:	30	90	70	30

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH	BBCH
Stage Majority, Percent:			33	34
Stage Minimum, Percent:			32	33
Stage Maximum, Percent:			33	35
Height, Unit:			5 IN	10.5 IN
Height Minimum, Maximum:			4 6	9 12

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Pest Stage At Each Application				
	A	B	C	D
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	12	13		
Stage Minimum, Percent:	11	12		
Stage Maximum, Percent:	14	15		
Height, Unit:	1.25 IN	4 IN		
Height Minimum, Maximum:	0.5 2	1 7		
Density, Unit:	300 YD2	300 YD2		
Pest 2 Code, Type, Scale:	ERICA W	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	14	17	19	
Stage Minimum, Percent:	13	15	16	
Stage Maximum, Percent:	16	19	19	
Height, Unit:	1.25 IN	2 IN	5 IN	
Height Minimum, Maximum:	0.5 2	1 3	0.5 10	
Density, Unit:	3 YD2	25 YD2	20 YD2	
Pest 3 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:		12	11	
Stage Minimum, Percent:		12	10	
Stage Maximum, Percent:		13	11	
Height, Unit:		2 IN	0.5 IN	
Height Minimum, Maximum:		1 3	0.25 1	
Density, Unit:		10 YD2	10 YD2	
Pest 4 Code, Type, Scale:	PANDI W	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:		14	15	
Stage Minimum, Percent:		13	13	
Stage Maximum, Percent:		16	17	
Height, Unit:		5 IN	2.5 IN	4 IN
Height Minimum, Maximum:		2 8	2 3	2 6
Density, Unit:		60 YD2	75 YD2	140 YD2
Pest 5 Code, Type, Scale:	XANST W	XANST W	XANST W	XANST W
Stage Majority, Percent:		13		
Stage Minimum, Percent:		12		
Stage Maximum, Percent:		14		
Height, Unit:		2.5 IN		2.5 IN
Height Minimum, Maximum:		2 3		1 4
Density, Unit:		10 YD2		45 YD2
Pest 6 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:		15		
Stage Minimum, Percent:		13		
Stage Maximum, Percent:		16		
Height, Unit:		2 IN		
Height Minimum, Maximum:		1 3		
Density, Unit:		5 YD2		

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Application Equipment				
	A	B	C	D
Appl. Equipment:	CO2 Backpack	CO2 Backpack	CO2 Backpack	CO2 Backpack
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	18 PSI	18 PSI	18 PSI	18 PSI
Nozzle Type:	Flat Fan	Flat Fan	Flat Fan	Flat Fan
Nozzle Size:	XR11002	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	H2O	H2O	H2O	H2O
Water Hardness (ppm CaCO3):	150	150	150	150
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2	CO2	CO2
Tank Mix (Y/N):	N no	N no	N no	N no

Trial Comments

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Trial ID: 14S-SEP-NTC-09
Protocol ID: 14S-SEP-NTC-09
Project ID:

Location: SEPAC Trial Year: 2014
Investigator: Dr. Bill Johnson
Study Director: Joe Ikley
Sponsor Contact: DOW

Reps: 4 Plots: 10 by 30 feet
Spray vol: 15 gal/ac Mix size: 1.8 liters (min 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check									101	402	701	802
2	SURESTART II	4.16	LB/GAL	SE	3	pt/a	A	EPP	45.0 ml/mx	102	403	602	905
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	A	EPP	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	A	EPP	15.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	A	EPP	45.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	D	4-6" WEEDS	22.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	D	4-6" WEEDS	45.0 ml/mx				
3	SURESTART II	4.16	LB/GAL	SE	3	pt/a	A	EPP	45.0 ml/mx	103	502	703	1001
	AATREX	4	LB/GAL	L	1	qt/a	A	EPP	30.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	A	EPP	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	A	EPP	15.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	A	EPP	45.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	D	4-6" WEEDS	22.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	D	4-6" WEEDS	45.0 ml/mx				
4	KEYSTONE NXT	5.6	LB/GAL	L	3	qt/a	B	PRE	90.0 ml/mx	104	504	801	805
	HORNET	78.5	%	WG	3	oz/a	B	PRE	2.696 g/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	B	PRE	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	B	PRE	15.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	B	PRE	45.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	D	4-6" WEEDS	22.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	D	4-6" WEEDS	45.0 ml/mx				
5	SURESTART II	4.16	LB/GAL	SE	2	pt/a	B	PRE	30.0 ml/mx	105	404	601	804
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	B	PRE	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	B	PRE	15.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	B	PRE	45.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	D	4-6" WEEDS	22.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	D	4-6" WEEDS	45.0 ml/mx				
6	SURESTART II	4.16	LB/GAL	SE	2.5	pt/a	B	PRE	37.5 ml/mx	201	405	704	902
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	B	PRE	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	B	PRE	15.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	B	PRE	45.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	D	4-6" WEEDS	22.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	D	4-6" WEEDS	45.0 ml/mx				
7	SURESTART II	4.16	LB/GAL	SE	2.5	pt/a	B	PRE	37.5 ml/mx	202	303	605	1002
	AATREX	4	LB/GAL	L	1	qt/a	B	PRE	30.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	B	PRE	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	B	PRE	15.0 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	B	PRE	45.0 ml/mx				
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	D	4-6" WEEDS	22.5 ml/mx				
	N-PAK AMS	3.4	LBA/GAL	SL	2.5	% v/v	D	4-6" WEEDS	45.0 ml/mx				
8	SURESTART II	4.16	LB/GAL	SE	2	pt/a	C	2-4" WEEDS	30.0 ml/mx	203	304	705	901
	DURANGO DMA	4	LBAE/GAL	SL	1.5	pt/a	C	2-4" WEEDS	22.5 ml/mx				
	WEEDAR 64	3.8	LBAE/GAL	L	1	pt/a	C	2-4" WEEDS	15.0 ml/mx				
9	HARNESS XTRA	5.6	LB/GAL	SC	3.2	pt/a	B	PRE	47.99 ml/mx	204	501	603	903
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	1	qt/a	B	PRE	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	B	PRE	45.0 ml/mx				
	IMPACT	2.8	LB/GAL	L	0.75	fl oz/a	C	2-4" WEEDS	0.7031 ml/mx				
	AATREX	4	LB/GAL	L	1	pt/a	C	2-4" WEEDS	15.0 ml/mx				
	MSO ULTRA	100	%	L	1	% v/v	C	2-4" WEEDS	18.0 ml/mx				
	UAN 28%	28	%	L	2.5	% v/v	C	2-4" WEEDS	45.0 ml/mx				
10	HARNESS XTRA	5.6	LB/GAL	SC	3.2	pt/a	B	PRE	47.99 ml/mx	205	503	604	1003
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	1	qt/a	B	PRE	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	B	PRE	45.0 ml/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	1	qt/a	C	2-4" WEEDS	30.0 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	SL	2.5	% v/v	C	2-4" WEEDS	45.0 ml/mx				

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Reps: 4

Plots: 10 by 30 feet

Spray vol: 15 gal/ac

Mix size: 1.8 liters (min 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
11	HARNESS XTRA	5.6 LB/GAL		SC	3.2 pt/a		B	PRE	47.99 ml/mx	301	305	702	803
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	1 qt/a		B	PRE	30.0 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		SL	2.5 % v/v		B	PRE	45.0 ml/mx				
	IMPACT	2.8 LB/GAL		L	0.75 fl oz/a		C	2-4" WEEDS	0.7031 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	1 qt/a		C	2-4" WEEDS	30.0 ml/mx				
	AATREX	4 LB/GAL		L	1 pt/a		C	2-4" WEEDS	15.0 ml/mx				
	MSO ULTRA	100 %		L	0.5 % v/v		C	2-4" WEEDS	8.999 ml/mx				
	N-PAK - AMS	3.4 LBA/GAL		SL	2.5 % v/v		C	2-4" WEEDS	45.0 ml/mx				
12	Untreated Check								302	401	505	904	

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 Type	Lot Code
224.976	ml	SURESTART II	4.16	SE	
292.468	ml	DURANGO DMA	4	SL	
104.989	ml	WEEDAR 64	3.8	L	
539.941	ml	N-PAK AMS	3.4	SL	
89.997	ml	AATREX	4	L	
90.000	ml	KEYSTONE NXT	5.6	L	
2.696	g	HORNET	78.5	WG	
143.984	ml	HARNESS XTRA	5.6	SC	
150.000	ml	ROUNDUP POWERMAX	4.5	SL	
224.976	ml	N-PAK - AMS	3.4	SL	
1.406	ml	IMPACT	2.8	L	
26.997	ml	MSO ULTRA	100	L	
44.995	ml	UAN 28%	28	L	

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

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

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 Protocol ID: 14S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: DOW

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	PANDI	XANST	AMBEL			
Pest Name	Common barnyar>	Fall panicum	Heart-leaf coc>	Common ragweed			
Crop Code					ZEAMX		
Crop Name					Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C		
Rating Date	5/27/2014	5/27/2014	5/27/2014	5/27/2014	6/12/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	19 19	19 19	19 19	19 19	35 16		
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-C		
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	10 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	4	5
1 Untreated Check		101	0	0	0	0	0
		402	0	0	0	0	0
		701	0	0	0	0	0
		802	0	0	0	0	0
		Mean =	0	0	0	0	0
2 SURESTART II	3 pt/a	A 102	100	100	90	100	0
DURANGO DMA	1.5 pt/a	A 403	90	100	100	100	0
WEEDAR 64	1 pt/a	A 602	100	100	100	100	3
N-PAK AMS	2.5 % v/v	A 905	100	100	95	100	0
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	98	100	96	100	1
3 SURESTART II	3 pt/a	A 103	100	95	95	100	0
AATREX	1 qt/a	A 502	100	100	100	100	0
DURANGO DMA	1.5 pt/a	A 703	100	100	95	100	0
WEEDAR 64	1 pt/a	A 1001	100	100	90	100	0*
N-PAK AMS	2.5 % v/v	A					
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	100	99	95	100	0
4 KEYSTONE NXT	3 qt/a	B 104					10
HORNET	3 oz/a	B 504					0
DURANGO DMA	1.5 pt/a	B 801					5
WEEDAR 64	1 pt/a	B 805					5
N-PAK AMS	2.5 % v/v	B					
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	.	.	.	.	5
5 SURESTART II	2 pt/a	B 105					10
DURANGO DMA	1.5 pt/a	B 404					0
WEEDAR 64	1 pt/a	B 601					10
N-PAK AMS	2.5 % v/v	B 804					0
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	.	.	.	.	5
6 SURESTART II	2.5 pt/a	B 201					0
DURANGO DMA	1.5 pt/a	B 405					0
WEEDAR 64	1 pt/a	B 704					0
N-PAK AMS	2.5 % v/v	B 902					5
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	1

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Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	ECHCG	PANDI	XANST	AMBEL		
Pest Name	Common barnyar>	Fall panicum	Heart-leaf coc>	Common ragweed		
Crop Code					ZEAMX	
Crop Name					Corn	
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	
Rating Date	5/27/2014	5/27/2014	5/27/2014	5/27/2014	6/12/2014	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	
Days After First/Last Applic.	19 19	19 19	19 19	19 19	35 16	
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-C	
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	10 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
				4	5	
7 SURESTART II	2.5 pt/a	B	202			0
AATREX	1 qt/a	B	303			0
DURANGO DMA	1.5 pt/a	B	605			10
WEEDAR 64	1 pt/a	B	1002			3*
N-PAK AMS	2.5 % v/v	B				
DURANGO DMA	1.5 pt/a	D				
N-PAK AMS	2.5 % v/v	D				
	Mean =			.	.	3
8 SURESTART II	2 pt/a	C	203			0
DURANGO DMA	1.5 pt/a	C	304			0
WEEDAR 64	1 pt/a	C	705			0
			901			0
	Mean =			.	.	0
9 HARNESS XTRA	3.2 pt/a	B	204			0
ROUNDUP POWERMAX	1 qt/a	B	501			5
N-PAK - AMS	2.5 % v/v	B	603			0
IMPACT	0.75 fl oz/a	C	903			0
AATREX	1 pt/a	C				
MSO ULTRA	1 % v/v	C				
UAN 28%	2.5 % v/v	C				
	Mean =			.	.	1
10 HARNESS XTRA	3.2 pt/a	B	205			0
ROUNDUP POWERMAX	1 qt/a	B	503			0
N-PAK - AMS	2.5 % v/v	B	604			5
ROUNDUP POWERMAX	1 qt/a	C	1003			1*
N-PAK - AMS	2.5 % v/v	C				
	Mean =			.	.	2
11 HARNESS XTRA	3.2 pt/a	B	301			5
ROUNDUP POWERMAX	1 qt/a	B	305			10
N-PAK - AMS	2.5 % v/v	B	702			0
IMPACT	0.75 fl oz/a	C	803			5
ROUNDUP POWERMAX	1 qt/a	C				
AATREX	1 pt/a	C				
MSO ULTRA	0.5 % v/v	C				
N-PAK - AMS	2.5 % v/v	C				
	Mean =			.	.	5
12 Untreated Check			302	0	0	0
			401	0	0	0
			505	0	0	0
			904	0	0	0
	Mean =			0	0	0

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Pest Type					W Weed	W Weed	W Weed			W Weed	
Pest Code					ECHCG	AMBEL	XANST			ECHCG	
Pest Name					Common barnyar>	Common ragweed	Heart-leaf coc>			Common barnyar>	
Crop Code									ZEAMX		
Crop Name									Corn		
Part Rated					PLOT P	PLOT P	PLOT P	PLOT C			
Rating Date					6/12/2014	6/12/2014	6/12/2014	6/18/2014			
Rating Type					CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit					%	%	%	%			
Number of Subsamples					1	1	1	1			
Days After First/Last Applic.					35 16	35 16	35 16	41 6			
Trt-Eval Interval					0 DA-C	0 DA-C	0 DA-C	0 DA-D			
Days After Emergence					10 DE-1	10 DE-1	10 DE-1	16 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	Plot	6	7	8	9	10			
1 Untreated Check			101	0	0	0	0	0			
			402	0	0	0	0	0			
			701	0	0	0	0	0			
			802	0	0	0	0	0			
			Mean =	0	0	0	0	0			
2 SURESTART II	3 pt/a	A	102	70	100	70	0	30			
DURANGO DMA	1.5 pt/a	A	403	90	100	100	0	60			
WEEDAR 64	1 pt/a	A	602	95	100	100	0	90			
N-PAK AMS	2.5 % v/v	A	905	60	100	100	0	30			
DURANGO DMA	1.5 pt/a	D									
N-PAK AMS	2.5 % v/v	D									
			Mean =	79	100	93	0	53			
3 SURESTART II	3 pt/a	A	103	85	100	95	0	50			
AATREX	1 qt/a	A	502	95	100	100	0	95			
DURANGO DMA	1.5 pt/a	A	703	95	100	100	3	60			
WEEDAR 64	1 pt/a	A	1001	95	100	80	1*	80			
N-PAK AMS	2.5 % v/v	A									
DURANGO DMA	1.5 pt/a	D									
N-PAK AMS	2.5 % v/v	D									
			Mean =	93	100	94	1	71			
4 KEYSTONE NXT	3 qt/a	B	104	95	100	100	5	95			
HORNET	3 oz/a	B	504	90	100	100	0	85			
DURANGO DMA	1.5 pt/a	B	801	30	100	100	5	60			
WEEDAR 64	1 pt/a	B	805	80	100	100	0	80			
N-PAK AMS	2.5 % v/v	B									
DURANGO DMA	1.5 pt/a	D									
N-PAK AMS	2.5 % v/v	D									
			Mean =	74	100	100	3	80			
5 SURESTART II	2 pt/a	B	105	95	100	100	5	90			
DURANGO DMA	1.5 pt/a	B	404	100	100	100	0	95			
WEEDAR 64	1 pt/a	B	601	100	100	99	7	95			
N-PAK AMS	2.5 % v/v	B	804	95	100	100	0	90			
DURANGO DMA	1.5 pt/a	D									
N-PAK AMS	2.5 % v/v	D									
			Mean =	98	100	100	3	93			
6 SURESTART II	2.5 pt/a	B	201	95	100	95	3	90			
DURANGO DMA	1.5 pt/a	B	405	95	100	99	0	95			
WEEDAR 64	1 pt/a	B	704	100	100	100	0	95			
N-PAK AMS	2.5 % v/v	B	902	100	100	100	7	95			
DURANGO DMA	1.5 pt/a	D									
N-PAK AMS	2.5 % v/v	D									
			Mean =	98	100	99	3	94			

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBEL	XANST		ECHCG			
Pest Name	Common barnyar>	Common ragweed	Heart-leaf coc>		Common barnyar>			
Crop Code				ZEAMX				
Crop Name				Corn				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P			
Rating Date	6/12/2014	6/12/2014	6/12/2014	6/18/2014	6/18/2014			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	35 16	35 16	35 16	41 6	41 6			
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-D	0 DA-D			
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	16 DE-1	16 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	6	7	8	9	10
7 SURESTART II	2.5 pt/a	B	202	95	100	100	0	90
AATREX	1 qt/a	B	303	60	100	100	0	90
DURANGO DMA	1.5 pt/a	B	605	90	100	100	5	90
WEEDAR 64	1 pt/a	B	1002	80	100	100	2*	90
N-PAK AMS	2.5 % v/v	B						
DURANGO DMA	1.5 pt/a	D						
N-PAK AMS	2.5 % v/v	D						
			Mean =	81	100	100	2	90
8 SURESTART II	2 pt/a	C	203	0	0	0	0	85
DURANGO DMA	1.5 pt/a	C	304	0	0	0	0	50
WEEDAR 64	1 pt/a	C	705	0	0	0	0	30
			901	0	0	0	5	90
			Mean =	0	0	0	1	64
9 HARNESS XTRA	3.2 pt/a	B	204	90	100	100	3	95
ROUNDUP POWERMAX	1 qt/a	B	501	100	100	90	5	100
N-PAK - AMS	2.5 % v/v	B	603	100	100	95	5	100
IMPACT	0.75 fl oz/a	C	903	100	100	90	0	95
AATREX	1 pt/a	C						
MSO ULTRA	1 % v/v	C						
UAN 28%	2.5 % v/v	C						
			Mean =	98	100	94	3	98
10 HARNESS XTRA	3.2 pt/a	B	205	95	100	100	0	100
ROUNDUP POWERMAX	1 qt/a	B	503	100	100	95	5	100
N-PAK - AMS	2.5 % v/v	B	604	100	100	94*	3	100
ROUNDUP POWERMAX	1 qt/a	C	1003	95	100	85	3*	100
N-PAK - AMS	2.5 % v/v	C						
			Mean =	98	100	94	3	100
11 HARNESS XTRA	3.2 pt/a	B	301	95	100	100	5	100
ROUNDUP POWERMAX	1 qt/a	B	305	90	100	95	5	100
N-PAK - AMS	2.5 % v/v	B	702	95	100	85	0	100
IMPACT	0.75 fl oz/a	C	803	95	100	99	5	100
ROUNDUP POWERMAX	1 qt/a	C						
AATREX	1 pt/a	C						
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
			Mean =	94	100	95	4	100
12 Untreated Check			302	0	0	0	0	0
			401	0	0	0	0	0
			505	0	0	0	0	0
			904	0	0	0	0	0
			Mean =	0	0	0	0	0

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Pest Type	W Weed	W Weed		W Weed	W Weed		
Pest Code	AMBEL	XANST		ECHCG	AMBEL		
Pest Name	Common ragweed	Heart-leaf coc>		Common barnyar>	Common ragweed		
Crop Code			ZEAMX				
Crop Name			Corn				
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P		
Rating Date	6/18/2014	6/18/2014	6/25/2014	6/25/2014	6/25/2014		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	41 6	41 6	48 7	48 7	48 7		
Trt-Eval Interval	0 DA-D	0 DA-D	7 DA-D	7 DA-D	7 DA-D		
Days After Emergence	16 DE-1	16 DE-1	23 DE-1	23 DE-1	23 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	11	12	13	14	15
1 Untreated Check		101	0	0	0	0	0
		402	0	0	0	0	0
		701	0	0	0	0	0
		802	0	0	0	0	0
		Mean =	0	0	0	0	0
2 SURESTART II	3 pt/a	A 102	100	60	0	100	100
DURANGO DMA	1.5 pt/a	A 403	100	100	0	100	100
WEEDAR 64	1 pt/a	A 602	100	85	0	100	100
N-PAK AMS	2.5 % v/v	A 905	90	80	1*	95	100
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	98	81	0	99	100
3 SURESTART II	3 pt/a	A 103	100	85	0	100	100
AATREX	1 qt/a	A 502	100	100	0	100	100
DURANGO DMA	1.5 pt/a	A 703	100	90	0	100	100
WEEDAR 64	1 pt/a	A 1001	100	80	1*	100	100
N-PAK AMS	2.5 % v/v	A					
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	100	89	0	100	100
4 KEYSTONE NXT	3 qt/a	B 104	100	100	2	100	100
HORNET	3 oz/a	B 504	100	100	0	100	100
DURANGO DMA	1.5 pt/a	B 801	100	90	0	100	100
WEEDAR 64	1 pt/a	B 805	100	100	0	100	100
N-PAK AMS	2.5 % v/v	B					
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	100	98	1	100	100
5 SURESTART II	2 pt/a	B 105	100	100	0*	100	100
DURANGO DMA	1.5 pt/a	B 404	100	100	0	100	100
WEEDAR 64	1 pt/a	B 601	100	85	0	100	100
N-PAK AMS	2.5 % v/v	B 804	100	100	0	100	100
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	100	96	0	100	100
6 SURESTART II	2.5 pt/a	B 201	100	90	0	100	100
DURANGO DMA	1.5 pt/a	B 405	100	100	0	100	100
WEEDAR 64	1 pt/a	B 704	100	100	0	100	100
N-PAK AMS	2.5 % v/v	B 902	100	100	1*	100	100
DURANGO DMA	1.5 pt/a	D					
N-PAK AMS	2.5 % v/v	D					
		Mean =	100	98	0	100	100

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				W Weed AMBEL Common ragweed	W Weed XANST Heart-leaf coc>	ZEAMX Corn PLOT C	W Weed ECHCG Common barnyar>	W Weed AMBEL Common ragweed
				PLOT P 6/18/2014 CONTRO	PLOT P 6/18/2014 CONTRO	PLOT C 6/25/2014 PHYGEN	PLOT P 6/25/2014 CONTRO	PLOT P 6/25/2014 CONTRO
				%	%	%	%	%
				1	1	1	1	1
				41 6	41 6	48 7	48 7	48 7
				0 DA-D	0 DA-D	7 DA-D	7 DA-D	7 DA-D
				16 DE-1	16 DE-1	23 DE-1	23 DE-1	23 DE-1
				P	P	P	P	P
				0	0	0	0	0
Trt	Treatment	Rate	Appl					
No.	Name	Rate Unit	Code Plot	11	12	13	14	15
7	SURESTART II	2.5 pt/a	B 202	100	95	0	100	100
	AATREX	1 qt/a	B 303	100	100	3	100	100
	DURANGO DMA	1.5 pt/a	B 605	100	100	0	95	100
	WEEDAR 64	1 pt/a	B 1002	100	100	2*	100	100
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
			Mean =	100	99	1	99	100
8	SURESTART II	2 pt/a	C 203	100	100	0	100	100
	DURANGO DMA	1.5 pt/a	C 304	100	100	0	90	100
	WEEDAR 64	1 pt/a	C 705	60	100	0	90	100
			901	70	95	1*	100	100
			Mean =	83	99	0	95	100
9	HARNESS XTRA	3.2 pt/a	B 204	100	100	0	95	100
	ROUNDUP POWERMAX	1 qt/a	B 501	100	100	0	95	100
	N-PAK - AMS	2.5 % v/v	B 603	100	100	0	100	100
	IMPACT	0.75 fl oz/a	C 903	100	100	1*	95	100
	AATREX	1 pt/a	C					
	MSO ULTRA	1 % v/v	C					
	UAN 28%	2.5 % v/v	C					
			Mean =	100	100	0	96	100
10	HARNESS XTRA	3.2 pt/a	B 205	100	100	3	100	100
	ROUNDUP POWERMAX	1 qt/a	B 503	100	100	0	100	100
	N-PAK - AMS	2.5 % v/v	B 604	100	100	0	100	100
	ROUNDUP POWERMAX	1 qt/a	C 1003	100	100	2*	100	100
	N-PAK - AMS	2.5 % v/v	C					
			Mean =	100	100	1	100	100
11	HARNESS XTRA	3.2 pt/a	B 301	100	100	0	100	100
	ROUNDUP POWERMAX	1 qt/a	B 305	100	100	0	100	100
	N-PAK - AMS	2.5 % v/v	B 702	100	100	0	100	100
	IMPACT	0.75 fl oz/a	C 803	100	100	5	100	100
	ROUNDUP POWERMAX	1 qt/a	C					
	AATREX	1 pt/a	C					
	MSO ULTRA	0.5 % v/v	C					
	N-PAK - AMS	2.5 % v/v	C					
			Mean =	100	100	1	100	100
12	Untreated Check		302	0	0	0	0	0
			401	0	0	0	0	0
			505	0	0	0	0	0
			904	0	0	0	0	0
			Mean =	0	0	0	0	0

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Pest Type									
Pest Code									
Pest Name									
Crop Code									
Crop Name									
Part Rated									
Rating Date									
Rating Type									
Rating Unit									
Number of Subsamples									
Days After First/Last Applic.									
Trt-Eval Interval									
Days After Emergence									
ARM Action Codes									
Number of Decimals									
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	Plot	16	17	18	19	20	
1 Untreated Check			101	0	0	0	0	0	
			402	0	0	0	0	0	
			701	0	0	0	0	0	
			802	0	0	0	0	0	
			Mean =	0	0	0	0	0	
2 SURESTART II	3 pt/a	A	102	100	0	100	100	90	
DURANGO DMA	1.5 pt/a	A	403	100	0	95	100	100	
WEEDAR 64	1 pt/a	A	602	100	0	90	100	100	
N-PAK AMS	2.5 % v/v	A	905	100	0*	95	100	92	
DURANGO DMA	1.5 pt/a	D							
N-PAK AMS	2.5 % v/v	D							
			Mean =	100	0	95	100	96	
3 SURESTART II	3 pt/a	A	103	100	5	90	100	100	
AATREX	1 qt/a	A	502	100	0	90	100	100	
DURANGO DMA	1.5 pt/a	A	703	100	3	90	100	95	
WEEDAR 64	1 pt/a	A	1001	100	3*	90	100	100	
N-PAK AMS	2.5 % v/v	A							
DURANGO DMA	1.5 pt/a	D							
N-PAK AMS	2.5 % v/v	D							
			Mean =	100	3	90	100	99	
4 KEYSTONE NXT	3 qt/a	B	104	100	7	90	100	100	
HORNET	3 oz/a	B	504	100	0	95	100	100	
DURANGO DMA	1.5 pt/a	B	801	100	0	95	100	90	
WEEDAR 64	1 pt/a	B	805	100	0	95	100	100	
N-PAK AMS	2.5 % v/v	B							
DURANGO DMA	1.5 pt/a	D							
N-PAK AMS	2.5 % v/v	D							
			Mean =	100	2	94	100	98	
5 SURESTART II	2 pt/a	B	105	100	1*	90	100	100	
DURANGO DMA	1.5 pt/a	B	404	100	0	95	100	100	
WEEDAR 64	1 pt/a	B	601	100	3	85	100	100	
N-PAK AMS	2.5 % v/v	B	804	100	0	99	100	100	
DURANGO DMA	1.5 pt/a	D							
N-PAK AMS	2.5 % v/v	D							
			Mean =	100	1	92	100	100	
6 SURESTART II	2.5 pt/a	B	201	100	0	80	100	100	
DURANGO DMA	1.5 pt/a	B	405	100	0	90	100	100	
WEEDAR 64	1 pt/a	B	704	100	0	99	100	100	
N-PAK AMS	2.5 % v/v	B	902	100	0*	90	100	100	
DURANGO DMA	1.5 pt/a	D							
N-PAK AMS	2.5 % v/v	D							
			Mean =	100	0	90	100	100	

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Pest Type	W Weed		W Weed	W Weed	W Weed
Pest Code	XANST		ECHCG	AMBEL	XANST
Pest Name	Heart-leaf coc>		Common barnyar>	Common ragweed	Heart-leaf coc>
Crop Code		ZEAMX			
Crop Name		Corn			
Part Rated	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P
Rating Date	6/25/2014	7/2/2014	7/2/2014	7/2/2014	7/2/2014
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	48 7	55 14	55 14	55 14	55 14
Trt-Eval Interval	7 DA-D	14 DA-D	14 DA-D	14 DA-D	14 DA-D
Days After Emergence	23 DE-1	30 DE-1	30 DE-1	30 DE-1	30 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	16	17	18
7 SURESTART II	2.5 pt/a	B 202	100	0	90
AATREX	1 qt/a	B 303	100	5	95
DURANGO DMA	1.5 pt/a	B 605	100	0	90
WEEDAR 64	1 pt/a	B 1002	100	2*	95
N-PAK AMS	2.5 % v/v	B			
DURANGO DMA	1.5 pt/a	D			
N-PAK AMS	2.5 % v/v	D			
	Mean =		100	2	93
8 SURESTART II	2 pt/a	C 203	100	0	100
DURANGO DMA	1.5 pt/a	C 304	100	0*	95
WEEDAR 64	1 pt/a	C 705	100	0	100
		901	100	0*	100
	Mean =		100	0	99
9 HARNESS XTRA	3.2 pt/a	B 204	100	0	75
ROUNDUP POWERMAX	1 qt/a	B 501	100	0	80
N-PAK - AMS	2.5 % v/v	B 603	100	0	85
IMPACT	0.75 fl oz/a	C 903	100	0*	85
AATREX	1 pt/a	C			
MSO ULTRA	1 % v/v	C			
UAN 28%	2.5 % v/v	C			
	Mean =		100	0	81
10 HARNESS XTRA	3.2 pt/a	B 205	100	0	80
ROUNDUP POWERMAX	1 qt/a	B 503	100	5	85
N-PAK - AMS	2.5 % v/v	B 604	99	0	95
ROUNDUP POWERMAX	1 qt/a	C 1003	100	2*	95
N-PAK - AMS	2.5 % v/v	C			
	Mean =		100	2	89
11 HARNESS XTRA	3.2 pt/a	B 301	100	0	85
ROUNDUP POWERMAX	1 qt/a	B 305	100	5	95
N-PAK - AMS	2.5 % v/v	B 702	100	0	90
IMPACT	0.75 fl oz/a	C 803	100	5	80
ROUNDUP POWERMAX	1 qt/a	C			
AATREX	1 pt/a	C			
MSO ULTRA	0.5 % v/v	C			
N-PAK - AMS	2.5 % v/v	C			
	Mean =		100	3	88
12 Untreated Check		302	0	0	0
		401	0	0	0
		505	0	0	0
		904	0	0	0
	Mean =		0	0	0

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		ECHCG	XANST	IPOSS	ECHCG	XANST
Pest Name		Common barnyar>	Heart-leaf coc>	Morning glory	Common barnyar>	Heart-leaf coc>
Crop Code						
Crop Name						
Part Rated		PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date		7/10/2014	7/10/2014	7/10/2014	8/14/2014	8/14/2014
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%	%
Number of Subsamples		1	1	1	1	1
Days After First/Last Applic.		63 22	63 22	63 22	98 57	98 57
Trt-Eval Interval		22 DA-D	22 DA-D	22 DA-D	57 DA-D	57 DA-D
Days After Emergence		38 DE-1	38 DE-1	38 DE-1	73 DE-1	73 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	21	22	23	24	25
1 Untreated Check	101	0	0	0	0	0
	402	0	0	0	0	0
	701	0	0	0	0	0
	802	0	0	0	0	0
	Mean =	0	0	0	0	0
2 SURESTART II	3 pt/a A 102	85	80	90	80	80
DURANGO DMA	1.5 pt/a A 403	60	100	80	55	100
WEEDAR 64	1 pt/a A 602	65	85	90	70	75
N-PAK AMS	2.5 % v/v A 905	75	100	75	75	95
DURANGO DMA	1.5 pt/a D					
N-PAK AMS	2.5 % v/v D					
	Mean =	71	91	84	70	88
3 SURESTART II	3 pt/a A 103	75	100	60	70	100
AATREX	1 qt/a A 502	60	80	90	65	85
DURANGO DMA	1.5 pt/a A 703	70	85	100	75	85
WEEDAR 64	1 pt/a A 1001	60	90	87*	50	80
N-PAK AMS	2.5 % v/v A					
DURANGO DMA	1.5 pt/a D					
N-PAK AMS	2.5 % v/v D					
	Mean =	66	89	84	65	88
4 KEYSTONE NXT	3 qt/a B 104	60	100	90	50	100
HORNET	3 oz/a B 504	80	100	20	70	100
DURANGO DMA	1.5 pt/a B 801	75	80	50	70	80
WEEDAR 64	1 pt/a B 805	80	95	65	75	85
N-PAK AMS	2.5 % v/v B					
DURANGO DMA	1.5 pt/a D					
N-PAK AMS	2.5 % v/v D					
	Mean =	74	94	56	66	91
5 SURESTART II	2 pt/a B 105	65	90	80	50	90
DURANGO DMA	1.5 pt/a B 404	75	100	50	75	100
WEEDAR 64	1 pt/a B 601	70	95	90	55	90
N-PAK AMS	2.5 % v/v B 804	85	95	100	85	90
DURANGO DMA	1.5 pt/a D					
N-PAK AMS	2.5 % v/v D					
	Mean =	74	95	80	66	93
6 SURESTART II	2.5 pt/a B 201	60	70	90	70	70
DURANGO DMA	1.5 pt/a B 405	60	95	70	70	90
WEEDAR 64	1 pt/a B 704	80	100	80	75	90
N-PAK AMS	2.5 % v/v B 902	65	70	100	60	65
DURANGO DMA	1.5 pt/a D					
N-PAK AMS	2.5 % v/v D					
	Mean =	66	84	85	69	79

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	XANST	IPOSS	ECHCG	XANST
Pest Name	Common barnyar>	Heart-leaf coc>	Morning glory	Common barnyar>	Heart-leaf coc>
Crop Code					
Crop Name					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	7/10/2014	7/10/2014	7/10/2014	8/14/2014	8/14/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	63 22	63 22	63 22	98 57	98 57
Trt-Eval Interval	22 DA-D	22 DA-D	22 DA-D	57 DA-D	57 DA-D
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	73 DE-1	73 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	21	22	23
7 SURESTART II	2.5 pt/a	B 202	70	70	90
AATREX	1 qt/a	B 303	85	100	70
DURANGO DMA	1.5 pt/a	B 605	60	90	80
WEEDAR 64	1 pt/a	B 1002	80	90	60
N-PAK AMS	2.5 % v/v	B			
DURANGO DMA	1.5 pt/a	D			
N-PAK AMS	2.5 % v/v	D			
		Mean =	74	88	75
8 SURESTART II	2 pt/a	C 203	100	100	90
DURANGO DMA	1.5 pt/a	C 304	100	100	90
WEEDAR 64	1 pt/a	C 705	100	100	50
		901	90	95	50
		Mean =	98	99	70
9 HARNESS XTRA	3.2 pt/a	B 204	50	60	100*
ROUNDUP POWERMAX	1 qt/a	B 501	50	95	100
N-PAK - AMS	2.5 % v/v	B 603	50	85	85
IMPACT	0.75 fl oz/a	C 903	30	80	100
AATREX	1 pt/a	C			
MSO ULTRA	1 % v/v	C			
UAN 28%	2.5 % v/v	C			
		Mean =	45	80	96
10 HARNESS XTRA	3.2 pt/a	B 205	50	90	70
ROUNDUP POWERMAX	1 qt/a	B 503	35	100	80
N-PAK - AMS	2.5 % v/v	B 604	60	100	85
ROUNDUP POWERMAX	1 qt/a	C 1003	70	70	95
N-PAK - AMS	2.5 % v/v	C			
		Mean =	54	90	83
11 HARNESS XTRA	3.2 pt/a	B 301	60	90	95
ROUNDUP POWERMAX	1 qt/a	B 305	60	100	76*
N-PAK - AMS	2.5 % v/v	B 702	60	60	60
IMPACT	0.75 fl oz/a	C 803	60	95	95
ROUNDUP POWERMAX	1 qt/a	C			
AATREX	1 pt/a	C			
MSO ULTRA	0.5 % v/v	C			
N-PAK - AMS	2.5 % v/v	C			
		Mean =	60	86	81
12 Untreated Check		302	0	0	0
		401	0	0	0
		505	0	0	0
		904	0	0	0
		Mean =	0	0	0

Purdue University Weed Science

Pest Type				W Weed			
Pest Code				IPOSS			
Pest Name				Morning glory			
Crop Code					ZEAMX	ZEAMX	
Crop Name					Corn	Corn	
Part Rated				PLOT P	YIELD C	YIELD C	
Rating Date				8/14/2014	11/20/2014	11/20/2014	
Rating Type				CONTRO	YIELD	YIELD	
Rating Unit				%	lb/plot	BU	
Number of Subsamples				1	1	1	
Days After First/Last Applic.				98 57	196 155	196 155	
Trt-Eval Interval				57 DA-D			
Days After Emergence				73 DE-1	171 DE-1	171 DE-1	
ARM Action Codes				P		TY1	
Number of Decimals				0		1	
Trt No.	Treatment Name	Rate	Appl Code	Plot	26	27	28
1	Untreated Check			101	0	6.0248876	36.8
				402	0	2.3618552	14.4
				701	0	7.9102788	48.4
				802	0	8.7721799	53.6
				Mean =	0	6.2673004	38.3
2	SURESTART II	3 pt/a	A	102	90	32.3125872	197.5
	DURANGO DMA	1.5 pt/a	A	403	75	31.2891041	191.3
	WEEDAR 64	1 pt/a	A	602	70	34.7905235	212.7
	N-PAK AMS	2.5 % v/v	A	905	70	27.7337828	169.5
	DURANGO DMA	1.5 pt/a	D				
	N-PAK AMS	2.5 % v/v	D				
				Mean =	76	31.5314994	192.7
3	SURESTART II	3 pt/a	A	103	65	30.8042791	188.3
	AATREX	1 qt/a	A	502	90	27.1951017	166.2
	DURANGO DMA	1.5 pt/a	A	703	100	32.3664662	197.8
	WEEDAR 64	1 pt/a	A	1001	89*	27.5610985*	168.5*
	N-PAK AMS	2.5 % v/v	A				
	DURANGO DMA	1.5 pt/a	D				
	N-PAK AMS	2.5 % v/v	D				
				Mean =	86	29.4817364	180.2
4	KEYSTONE NXT	3 qt/a	B	104	85	29.0266299	177.4
	HORNET	3 oz/a	B	504	20	28.8111529	176.1
	DURANGO DMA	1.5 pt/a	B	801	40	23.5320684	143.8
	WEEDAR 64	1 pt/a	B	805	65	25.0942405	153.4
	N-PAK AMS	2.5 % v/v	B				
	DURANGO DMA	1.5 pt/a	D				
	N-PAK AMS	2.5 % v/v	D				
				Mean =	53	26.6160229	162.7
5	SURESTART II	2 pt/a	B	105	85	20.8386561	127.4
	DURANGO DMA	1.5 pt/a	B	404	65	35.7062876	218.3
	WEEDAR 64	1 pt/a	B	601	85	22.5624413	137.9
	N-PAK AMS	2.5 % v/v	B	804	100	33.5515554	205.1
	DURANGO DMA	1.5 pt/a	D				
	N-PAK AMS	2.5 % v/v	D				
				Mean =	84	28.1647351	172.2
6	SURESTART II	2.5 pt/a	B	201	95	31.3968231	191.9
	DURANGO DMA	1.5 pt/a	B	405	70	26.4948146	161.9
	WEEDAR 64	1 pt/a	B	704	80	38.6690409	236.4
	N-PAK AMS	2.5 % v/v	B	902	95	19.5458170	119.5
	DURANGO DMA	1.5 pt/a	D				
	N-PAK AMS	2.5 % v/v	D				
				Mean =	85	29.0266239	177.4

Purdue University Weed Science

Pest Type	W Weed		I POSS			
Pest Code	Morning glory					
Pest Name			ZEAMX		ZEAMX	
Crop Code			Corn		Corn	
Crop Name			YIELD C		YIELD C	
Part Rated	PLOT P	8/14/2014	11/20/2014	11/20/2014		
Rating Date	CONTRO	%	lb/plot	BU		
Rating Type	1	1	1	1		
Rating Unit	98 57	196 155	196 155	196 155		
Number of Subsamples	57 DA-D					
Days After First/Last Applic.	73 DE-1	171 DE-1	171 DE-1	171 DE-1		
Tri-Eval Interval	P			TY1		
Days After Emergence	0			1		
ARM Action Codes						
Number of Decimals						
Tri Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	26	27	28	
7 SURESTART II	2.5 pt/a	B 202	85	28.1647368	172.2	
AATREX	1 qt/a	B 303	70	20.7309211	126.7	
DURANGO DMA	1.5 pt/a	B 605	85	27.9492678	170.8	
WEEDAR 64	1 pt/a	B 1002	45	21.1618601	129.3	
N-PAK AMS	2.5 % v/v	B				
DURANGO DMA	1.5 pt/a	D				
N-PAK AMS	2.5 % v/v	D				
		Mean =	71	24.5016965	149.8	
8 SURESTART II	2 pt/a	C 203	90	22.8317813	139.6	
DURANGO DMA	1.5 pt/a	C 304	85	20.9171559*	127.9*	
WEEDAR 64	1 pt/a	C 705	25	23.4243343	143.2	
		901	40	19.9767700	122.1	
		Mean =	60	21.7875104	133.2	
9 HARNESS XTRA	3.2 pt/a	B 204	15	27.1951017	166.2	
ROUNDUP POWERMAX	1 qt/a	B 501	95	16.0443896	98.1	
N-PAK - AMS	2.5 % v/v	B 603	40	27.1412307	165.9	
IMPACT	0.75 fl oz/a	C 903	90	14.4283464	88.2	
AATREX	1 pt/a	C				
MSO ULTRA	1 % v/v	C				
UAN 28%	2.5 % v/v	C				
		Mean =	60	21.2022671	129.6	
10 HARNESS XTRA	3.2 pt/a	B 205	75	25.4713315	155.7	
ROUNDUP POWERMAX	1 qt/a	B 503	70	26.2793376	160.6	
N-PAK - AMS	2.5 % v/v	B 604	75	32.2587162	197.2	
ROUNDUP POWERMAX	1 qt/a	C 1003	90	25.4421689*	155.5*	
N-PAK - AMS	2.5 % v/v	C				
		Mean =	78	27.3628886	167.3	
11 HARNESS XTRA	3.2 pt/a	B 301	95	24.8249005	151.7	
ROUNDUP POWERMAX	1 qt/a	B 305	82*	24.6520661*	150.7*	
N-PAK - AMS	2.5 % v/v	B 702	65	28.7034179	175.4	
IMPACT	0.75 fl oz/a	C 803	90	23.9091444	146.1	
ROUNDUP POWERMAX	1 qt/a	C				
AATREX	1 pt/a	C				
MSO ULTRA	0.5 % v/v	C				
N-PAK - AMS	2.5 % v/v	C				
		Mean =	83	25.5223822	156.0	
12 Untreated Check		302	0	2.7928013	17.1	
		401	0	4.4627154	27.3	
		505	0	3.2776113	20.0	
		904	0	5.1630025	31.6	
		Mean =	0	3.9240326	24.0	

Purdue University Weed Science

2014 CORN SHOWCASE PROGRAMS

Trial ID: 14S-SEP-NTC-09 Location: SEPAC Trial Year: 2014
Protocol ID: 14S-SEP-NTC-09 Investigator: Dr. Bill Johnson
Project ID: Study Director: Joe Ikley
Sponsor Contact: DOW

Pest Type

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

Pest Code

ECHCG, Echinochloa crus-galli, = US

PANDI, Panicum dichotomiflorum, = US

XANST, Xanthium strumarium, = US

AMBEL, Ambrosia artemisiifolia, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Part Rated

PLOT = plot

YIELD = yield

P = Pest is Part Rated

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

ARM Action Codes

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

TY1 = 6.112392*[27]

Purdue University Weed Science

2014 CORN SHOWCASE PROGRAMS

Trial ID: 14S-SEP-NTC-09 Location: SEPAC Trial Year: 2014
 Protocol ID: 14S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: DOW

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	PANDI	XANST	AMBEL				
Pest Name	Common barnyar>	Fall panicum	Heart-leaf coc>	Common ragweed				
Crop Code					ZEAMX			
Crop Name					Corn			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C			
Rating Date	5/27/2014	5/27/2014	5/27/2014	5/27/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	19 19	19 19	19 19	19 19	35 16			
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-C			
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	10 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5
1	Untreated Check			0 b	0 b	0 b	0 b	0 a
2	SURESTART II	3 pt/a	A	98 a	100 a	96 a	100 a	1 a
	DURANGO DMA	1.5 pt/a	A					
	WEEDAR 64	1 pt/a	A					
	N-PAK AMS	2.5 % v/v	A					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
3	SURESTART II	3 pt/a	A	100 a	99 a	95 a	100 a	0 a
	AATREX	1 qt/a	A					
	DURANGO DMA	1.5 pt/a	A					
	WEEDAR 64	1 pt/a	A					
	N-PAK AMS	2.5 % v/v	A					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
4	KEYSTONE NXT	3 qt/a	B					5 a
	HORNET	3 oz/a	B					
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
5	SURESTART II	2 pt/a	B					5 a
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
6	SURESTART II	2.5 pt/a	B					1 a
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
7	SURESTART II	2.5 pt/a	B					3 a
	AATREX	1 qt/a	B					
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					

Means followed by same letter 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=5,8,9,13,23,26,27,28; Average=17

Purdue University Weed Science

Pest Type	W Weed ECHCG	W Weed PANDI	W Weed XANST	W Weed AMBEL			
Pest Code							
Pest Name	Common barnyar>	Fall panicum	Heart-leaf coc>	Common ragweed			
Crop Code					ZEAMX		
Crop Name					Corn		
Part Rated					PLOT C		
Rating Date	5/27/2014	5/27/2014	5/27/2014	5/27/2014	6/12/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	19 19	19 19	19 19	19 19	35 16		
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-C		
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	10 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	1	2	3	4	5
8 SURESTART II	2 pt/a	C					0 a
DURANGO DMA	1.5 pt/a	C					
WEEDAR 64	1 pt/a	C					
9 HARNESS XTRA	3.2 pt/a	B					1 a
ROUNDUP POWERMAX	1 qt/a	B					
N-PAK - AMS	2.5 % v/v	B					
IMPACT	0.75 fl oz/a	C					
AATREX	1 pt/a	C					
MSO ULTRA	1 % v/v	C					
UAN 28%	2.5 % v/v	C					
10 HARNESS XTRA	3.2 pt/a	B					2 a
ROUNDUP POWERMAX	1 qt/a	B					
N-PAK - AMS	2.5 % v/v	B					
ROUNDUP POWERMAX	1 qt/a	C					
N-PAK - AMS	2.5 % v/v	C					
11 HARNESS XTRA	3.2 pt/a	B					5 a
ROUNDUP POWERMAX	1 qt/a	B					
N-PAK - AMS	2.5 % v/v	B					
IMPACT	0.75 fl oz/a	C					
ROUNDUP POWERMAX	1 qt/a	C					
AATREX	1 pt/a	C					
MSO ULTRA	0.5 % v/v	C					
N-PAK - AMS	2.5 % v/v	C					
12 Untreated Check			0 b	0 b	0 b	0 b	0 a
LSD (P=.05)	4.0	2.0	4.7	0.0	4.7		
Standard Deviation	2.5	1.3	2.9	0.0	3.2		
CV	5.06	2.52	6.1	0.0	168.36		
Bartlett's X2	0.0	0.0	0.075	0.0	6.777		
P(Bartlett's X2)	.	.	0.785	.	0.452		
Skewness	0.007	0.0018	0.0109	0.0	1.5357*		
Kurtosis	-2.297*	-2.3048*	-2.2894*	-2.3077*	1.0198		

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Pest Type Pest Code Pest Name	W Weed ECHCG Common barnyar>	W Weed AMBEL Common ragweed	W Weed XANST Heart-leaf coc>	W Weed ECHCG Common barnyar>				
Crop Code Crop Name Part Rated				ZEAMX Corn PLOT C				
Rating Date	PLOT P 6/12/2014	PLOT P 6/12/2014	PLOT P 6/12/2014	PLOT C 6/18/2014				
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Days After First/Last Applic.	35 16	35 16	35 16	41 6				
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-D				
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	16 DE-1				
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0				
Trt No.	Treatment Name	Rate	Appl Code	6	7	8	9	10
1	Untreated Check			0 b	0 b	0 b	0 a	0 d
2	SURESTART II DURANGO DMA WEEDAR 64 N-PAK AMS DURANGO DMA N-PAK AMS	3 pt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	A A A A D D	79 a	100 a	93 a	0 a	53 c
3	SURESTART II AATREX DURANGO DMA WEEDAR 64 N-PAK AMS DURANGO DMA N-PAK AMS	3 pt/a 1 qt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	A A A A A D D	93 a	100 a	94 a	1 a	71 abc
4	KEYSTONE NXT HORNET DURANGO DMA WEEDAR 64 N-PAK AMS DURANGO DMA N-PAK AMS	3 qt/a 3 oz/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	B B B B B D D	74 a	100 a	100 a	3 a	80 ab
5	SURESTART II DURANGO DMA WEEDAR 64 N-PAK AMS DURANGO DMA N-PAK AMS	2 pt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	B B B B D D	98 a	100 a	100 a	3 a	93 ab
6	SURESTART II DURANGO DMA WEEDAR 64 N-PAK AMS DURANGO DMA N-PAK AMS	2.5 pt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	B B B B D D	98 a	100 a	99 a	3 a	94 ab
7	SURESTART II AATREX DURANGO DMA WEEDAR 64 N-PAK AMS DURANGO DMA N-PAK AMS	2.5 pt/a 1 qt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	B B B B B D D	81 a	100 a	100 a	2 a	90 ab

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Pest Type Pest Code Pest Name	W Weed ECHCG Common barnyar>	W Weed AMBEL Common ragweed	W Weed XANST Heart-leaf coc>		W Weed ECHCG Common barnyar>		
Crop Code				ZEAMX			
Crop Name				Corn			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P		
Rating Date	6/12/2014	6/12/2014	6/12/2014	6/18/2014	6/18/2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	35 16	35 16	35 16	41 6	41 6		
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-D	0 DA-D		
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	16 DE-1	16 DE-1		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	6	7	8	9	10
8 SURESTART II DURANGO DMA WEEDAR 64	2 pt/a 1.5 pt/a 1 pt/a	C C C	0 b	0 b	0 b	1 a	64 bc
9 HARNESS XTRA ROUNDUP POWERMAX N-PAK - AMS IMPACT AATREX MSO ULTRA UAN 28%	3.2 pt/a 1 qt/a 2.5 % v/v 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v	B B B C C C C	98 a	100 a	94 a	3 a	98 a
10 HARNESS XTRA ROUNDUP POWERMAX N-PAK - AMS ROUNDUP POWERMAX N-PAK - AMS	3.2 pt/a 1 qt/a 2.5 % v/v 1 qt/a 2.5 % v/v	B B B C C	98 a	100 a	94 a	3 a	100 a
11 HARNESS XTRA ROUNDUP POWERMAX N-PAK - AMS IMPACT ROUNDUP POWERMAX AATREX MSO ULTRA N-PAK - AMS	3.2 pt/a 1 qt/a 2.5 % v/v 0.75 fl oz/a 1 qt/a 1 pt/a 0.5 % v/v 2.5 % v/v	B B B C C C C C	94 a	100 a	95 a	4 a	100 a
12 Untreated Check			0 b	0 b	0 b	0 a	0 d
LSD (P=.05)	16.7	0.0	9.0	3.5	20.6		
Standard Deviation	11.6	0.0	6.3	2.4	14.3		
CV	17.16	0.0	8.67	135.08	20.4		
Bartlett's X2	37.236	0.0	21.951	1.492	27.243		
P(Bartlett's X2)	0.001*	.	0.001*	0.993	0.001*		
Skewness	-0.9629*	-1.1923*	-1.0996*	0.7889*	-1.098*		
Kurtosis	-0.9503	-0.6055	-0.7522	-1.0916	-0.405		

Purdue University Weed Science

Pest Type	W Weed AMBEL	W Weed XANST	W Weed ECHCG	W Weed AMBEL
Pest Code				
Pest Name	Common ragweed	Heart-leaf coc>	Common barnyar>	Common ragweed
Crop Code			ZEAMX	
Crop Name			Corn	
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	6/18/2014	6/18/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	41 6	41 6	48 7	48 7
Trt-Eval Interval	0 DA-D	0 DA-D	7 DA-D	7 DA-D
Days After Emergence	16 DE-1	16 DE-1	23 DE-1	23 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	11	12
1 Untreated Check			0 c	0 c
2 SURESTART II	3 pt/a	A	98 a	81 b
DURANGO DMA	1.5 pt/a	A		0 a
WEEDAR 64	1 pt/a	A		99 a
N-PAK AMS	2.5 % v/v	A		100 a
DURANGO DMA	1.5 pt/a	D		
N-PAK AMS	2.5 % v/v	D		
3 SURESTART II	3 pt/a	A	100 a	89 ab
AATREX	1 qt/a	A		0 a
DURANGO DMA	1.5 pt/a	A		100 a
WEEDAR 64	1 pt/a	A		
N-PAK AMS	2.5 % v/v	A		
DURANGO DMA	1.5 pt/a	D		
N-PAK AMS	2.5 % v/v	D		
4 KEYSTONE NXT	3 qt/a	B	100 a	98 a
HORNET	3 oz/a	B		1 a
DURANGO DMA	1.5 pt/a	B		100 a
WEEDAR 64	1 pt/a	B		
N-PAK AMS	2.5 % v/v	B		
DURANGO DMA	1.5 pt/a	D		
N-PAK AMS	2.5 % v/v	D		
5 SURESTART II	2 pt/a	B	100 a	96 a
DURANGO DMA	1.5 pt/a	B		0 a
WEEDAR 64	1 pt/a	B		100 a
N-PAK AMS	2.5 % v/v	B		
DURANGO DMA	1.5 pt/a	D		
N-PAK AMS	2.5 % v/v	D		
6 SURESTART II	2.5 pt/a	B	100 a	98 a
DURANGO DMA	1.5 pt/a	B		0 a
WEEDAR 64	1 pt/a	B		100 a
N-PAK AMS	2.5 % v/v	B		
DURANGO DMA	1.5 pt/a	D		
N-PAK AMS	2.5 % v/v	D		
7 SURESTART II	2.5 pt/a	B	100 a	99 a
AATREX	1 qt/a	B		1 a
DURANGO DMA	1.5 pt/a	B		99 a
WEEDAR 64	1 pt/a	B		
N-PAK AMS	2.5 % v/v	B		
DURANGO DMA	1.5 pt/a	D		
N-PAK AMS	2.5 % v/v	D		

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Pest Type	W Weed	W Weed		W Weed	W Weed			
Pest Code	AMBEL	XANST		ECHCG	AMBEL			
Pest Name	Common ragweed	Heart-leaf coc>		Common barnyar>	Common ragweed			
Crop Code			ZEAMX					
Crop Name			Corn					
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P			
Rating Date	6/18/2014	6/18/2014	6/25/2014	6/25/2014	6/25/2014			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	41 6	41 6	48 7	48 7	48 7			
Trt-Eval Interval	0 DA-D	0 DA-D	7 DA-D	7 DA-D	7 DA-D			
Days After Emergence	16 DE-1	16 DE-1	23 DE-1	23 DE-1	23 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	11	12	13	14	15
8	SURESTART II DURANGO DMA WEEDAR 64	2 pt/a 1.5 pt/a 1 pt/a	C C C	83 b	99 a	0 a	95 a	100 a
9	HARNES XTRA ROUNDUP POWERMAX N-PAK - AMS IMPACT AATREX MSO ULTRA UAN 28%	3.2 pt/a 1 qt/a 2.5 % v/v 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v	B B B C C C C	100 a	100 a	0 a	96 a	100 a
10	HARNES XTRA ROUNDUP POWERMAX N-PAK - AMS ROUNDUP POWERMAX N-PAK - AMS	3.2 pt/a 1 qt/a 2.5 % v/v 1 qt/a 2.5 % v/v	B B B C C	100 a	100 a	1 a	100 a	100 a
11	HARNES XTRA ROUNDUP POWERMAX N-PAK - AMS IMPACT ROUNDUP POWERMAX AATREX MSO ULTRA N-PAK - AMS	3.2 pt/a 1 qt/a 2.5 % v/v 0.75 fl oz/a 1 qt/a 1 pt/a 0.5 % v/v 2.5 % v/v	B B B C C C C C	100 a	100 a	1 a	100 a	100 a
12	Untreated Check			0 c	0 c	0 a	0 b	0 b
LSD (P=.05)		8.8		8.8	8.6	1.6	3.1	0.0
Standard Deviation		6.1		6.1	6.0	1.1	2.1	0.0
CV		7.44		7.44	7.47	252.4	2.59	0.0
Bartlett's X2		4.62		4.62	15.051	2.177	3.659	0.0
P(Bartlett's X2)		0.032*		0.032*	0.02*	0.536	0.301	.
Skewness		-1.7286*		-1.7286*	-1.6965*	3.3818*	-1.8304*	-1.8471*
Kurtosis		1.1536		1.1536	1.1109	11.3824*	1.4366*	1.4713*

Purdue University Weed Science

Pest Type Pest Code Pest Name				W Weed XANST Heart-leaf coc>		W Weed ECHCG Common barnyar>	W Weed AMBEL Common ragweed	W Weed XANST Heart-leaf coc>
Crop Code Crop Name Part Rated					ZEAMX Corn			
Rating Date				PLOT P 6/25/2014	PLOT C 7/2/2014	PLOT P 7/2/2014	PLOT P 7/2/2014	PLOT P 7/2/2014
Rating Type				CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%
Number of Subsamples				1	1	1	1	1
Days After First/Last Applic.				48 7	55 14	55 14	55 14	55 14
Trt-Eval Interval				7 DA-D	14 DA-D	14 DA-D	14 DA-D	14 DA-D
Days After Emergence				23 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes				P	P	P	P	P
Number of Decimals				0	0	0	0	0
Trt No.	Treatment Name	Rate	Appl Code	16	17	18	19	20
		Rate Unit						
1	Untreated Check			0 b	0 a	0 d	0 b	0 b
2	SURESTART II	3 pt/a	A	100 a	0 a	95 ab	100 a	96 a
	DURANGO DMA	1.5 pt/a	A					
	WEEDAR 64	1 pt/a	A					
	N-PAK AMS	2.5 % v/v	A					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
3	SURESTART II	3 pt/a	A	100 a	3 a	90 abc	100 a	99 a
	AATREX	1 qt/a	A					
	DURANGO DMA	1.5 pt/a	A					
	WEEDAR 64	1 pt/a	A					
	N-PAK AMS	2.5 % v/v	A					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
4	KEYSTONE NXT	3 qt/a	B	100 a	2 a	94 ab	100 a	98 a
	HORNET	3 oz/a	B					
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
5	SURESTART II	2 pt/a	B	100 a	1 a	92 ab	100 a	100 a
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
6	SURESTART II	2.5 pt/a	B	100 a	0 a	90 abc	100 a	100 a
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
7	SURESTART II	2.5 pt/a	B	100 a	2 a	93 ab	100 a	100 a
	AATREX	1 qt/a	B					
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					

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Pest Type	W Weed		W Weed	W Weed	W Weed			
Pest Code	XANST		ECHCG	AMBEL	XANST			
Pest Name	Heart-leaf coc>		Common barnyar>	Common ragweed	Heart-leaf coc>			
Crop Code		ZEAMX						
Crop Name		Corn						
Part Rated								
Rating Date	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P			
Rating Type	6/25/2014	7/2/2014	7/2/2014	7/2/2014	7/2/2014			
Rating Unit	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO			
Number of Subsamples	%	%	%	%	%			
Days After First/Last Applic.	1	1	1	1	1			
Tri-Eval Interval	48 7	55 14	55 14	55 14	55 14			
Days After Emergence	7 DA-D	14 DA-D	14 DA-D	14 DA-D	14 DA-D			
ARM Action Codes	23 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1			
Number of Decimals	P	P	P	P	P			
	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	16	17	18	19	20
8	SURESTART II	2 pt/a	C	100 a	0 a	99 a	100 a	100 a
	DURANGO DMA	1.5 pt/a	C					
	WEEDAR 64	1 pt/a	C					
9	HARNESS XTRA	3.2 pt/a	B	100 a	0 a	81 c	100 a	99 a
	ROUNDUP POWERMAX	1 qt/a	B					
	N-PAK - AMS	2.5 % v/v	B					
	IMPACT	0.75 fl oz/a	C					
	AATREX	1 pt/a	C					
	MSO ULTRA	1 % v/v	C					
	UAN 28%	2.5 % v/v	C					
10	HARNESS XTRA	3.2 pt/a	B	100 a	2 a	89 abc	100 a	98 a
	ROUNDUP POWERMAX	1 qt/a	B					
	N-PAK - AMS	2.5 % v/v	B					
	ROUNDUP POWERMAX	1 qt/a	C					
	N-PAK - AMS	2.5 % v/v	C					
11	HARNESS XTRA	3.2 pt/a	B	100 a	3 a	88 bc	100 a	98 a
	ROUNDUP POWERMAX	1 qt/a	B					
	N-PAK - AMS	2.5 % v/v	B					
	IMPACT	0.75 fl oz/a	C					
	ROUNDUP POWERMAX	1 qt/a	C					
	AATREX	1 pt/a	C					
	MSO ULTRA	0.5 % v/v	C					
	N-PAK - AMS	2.5 % v/v	C					
12	Untreated Check			0 b	0 a	0 d	0 b	0 b
LSD (P=.05)		0.2		3.1		6.5		4.4
Standard Deviation		0.1		2.1		4.5		3.1
CV		0.17		228.38		5.93		3.74
Bartlett's X2		0.0		1.009		8.084		3.282
P(Bartlett's X2)		.		0.962		0.425		0.657
Skewness		-1.847*		1.7949*		-1.7356*		-1.821*
Kurtosis		1.4712*		1.7381*		1.2485		1.4169*

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	XANST	IPOSS	ECHCG	XANST			
Pest Name	Common barnyar>	Heart-leaf coc>	Morning glory	Common barnyar>	Heart-leaf coc>			
Crop Code								
Crop Name								
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	7/10/2014	7/10/2014	7/10/2014	8/14/2014	8/14/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	63 22	63 22	63 22	98 57	98 57			
Trt-Eval Interval	22 DA-D	22 DA-D	22 DA-D	57 DA-D	57 DA-D			
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	73 DE-1	73 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	21	22	23	24	25
1	Untreated Check			0 d	0 b	0 c	0 d	0 b
2	SURESTART II	3 pt/a	A	71 b	91 a	84 ab	70 ab	88 a
	DURANGO DMA	1.5 pt/a	A					
	WEEDAR 64	1 pt/a	A					
	N-PAK AMS	2.5 % v/v	A					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
3	SURESTART II	3 pt/a	A	66 b	89 a	84 ab	65 ab	88 a
	AATREX	1 qt/a	A					
	DURANGO DMA	1.5 pt/a	A					
	WEEDAR 64	1 pt/a	A					
	N-PAK AMS	2.5 % v/v	A					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
4	KEYSTONE NXT	3 qt/a	B	74 b	94 a	56 b	66 ab	91 a
	HORNET	3 oz/a	B					
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
5	SURESTART II	2 pt/a	B	74 b	95 a	80 ab	66 ab	93 a
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
6	SURESTART II	2.5 pt/a	B	66 b	84 a	85 ab	69 ab	79 a
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					
7	SURESTART II	2.5 pt/a	B	74 b	88 a	75 ab	66 ab	84 a
	AATREX	1 qt/a	B					
	DURANGO DMA	1.5 pt/a	B					
	WEEDAR 64	1 pt/a	B					
	N-PAK AMS	2.5 % v/v	B					
	DURANGO DMA	1.5 pt/a	D					
	N-PAK AMS	2.5 % v/v	D					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	XANST	IPOSS	ECHCG	XANST
Pest Name	Common barnyar>	Heart-leaf coc>	Morning glory	Common barnyar>	Heart-leaf coc>
Crop Code					
Crop Name					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	7/10/2014	7/10/2014	7/10/2014	8/14/2014	8/14/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	63 22	63 22	63 22	98 57	98 57
Trt-Eval Interval	22 DA-D	22 DA-D	22 DA-D	57 DA-D	57 DA-D
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	73 DE-1	73 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	21	22	23
8 SURESTART II	2 pt/a	C	98 a	99 a	70 ab
DURANGO DMA	1.5 pt/a	C			
WEEDAR 64	1 pt/a	C			
9 HARNESS XTRA	3.2 pt/a	B	45 c	80 a	96 a
ROUNDUP POWERMAX	1 qt/a	B			
N-PAK - AMS	2.5 % v/v	B			
IMPACT	0.75 fl oz/a	C			
AATREX	1 pt/a	C			
MSO ULTRA	1 % v/v	C			
UAN 28%	2.5 % v/v	C			
10 HARNESS XTRA	3.2 pt/a	B	54 bc	90 a	83 ab
ROUNDUP POWERMAX	1 qt/a	B			
N-PAK - AMS	2.5 % v/v	B			
ROUNDUP POWERMAX	1 qt/a	C			
N-PAK - AMS	2.5 % v/v	C			
11 HARNESS XTRA	3.2 pt/a	B	60 bc	86 a	81 ab
ROUNDUP POWERMAX	1 qt/a	B			
N-PAK - AMS	2.5 % v/v	B			
IMPACT	0.75 fl oz/a	C			
ROUNDUP POWERMAX	1 qt/a	C			
AATREX	1 pt/a	C			
MSO ULTRA	0.5 % v/v	C			
N-PAK - AMS	2.5 % v/v	C			
12 Untreated Check			0 d	0 b	0 c
LSD (P=.05)	13.0	15.2	23.8	15.5	14.6
Standard Deviation	9.0	10.5	16.5	10.7	10.1
CV	15.81	14.13	24.87	20.3	14.27
Bartlett's X2	3.615	12.579	8.465	10.201	9.175
P(Bartlett's X2)	0.89	0.183	0.488	0.334	0.421
Skewness	-0.923*	-1.5087*	-1.0119*	-0.9261*	-1.5026*
Kurtosis	-0.0154	0.7328	-0.389	-0.2573	0.7293

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Pest Type			W Weed			
Pest Code			IPOSS			
Pest Name			Morning glory			
Crop Code			ZEAMX		ZEAMX	
Crop Name			Corn		Corn	
Part Rated			PLOT P		YIELD C	
Rating Date			8/14/2014		11/20/2014	
Rating Type			CONTRO		YIELD	
Rating Unit			%		lb/plot	
Number of Subsamples			1		1	
Days After First/Last Applic.			98 57		196 155	
Trt-Eval Interval			57 DA-D		196 155	
Days After Emergence			73 DE-1		171 DE-1	
ARM Action Codes			P		TY1	
Number of Decimals			0		1	
Trt No.	Treatment Name	Rate	Appl Code	26	27	28
		Rate Unit				
1	Untreated Check			0 b	6.2673004 b	38.3 b
2	SURESTART II	3 pt/a	A	76 a	31.5314994 a	192.7 a
	DURANGO DMA	1.5 pt/a	A			
	WEEDAR 64	1 pt/a	A			
	N-PAK AMS	2.5 % v/v	A			
	DURANGO DMA	1.5 pt/a	D			
	N-PAK AMS	2.5 % v/v	D			
3	SURESTART II	3 pt/a	A	86 a	29.4817364 a	180.2 a
	AATREX	1 qt/a	A			
	DURANGO DMA	1.5 pt/a	A			
	WEEDAR 64	1 pt/a	A			
	N-PAK AMS	2.5 % v/v	A			
	DURANGO DMA	1.5 pt/a	D			
	N-PAK AMS	2.5 % v/v	D			
4	KEystone NXT	3 qt/a	B	53 a	26.6160229 a	162.7 a
	HORNET	3 oz/a	B			
	DURANGO DMA	1.5 pt/a	B			
	WEEDAR 64	1 pt/a	B			
	N-PAK AMS	2.5 % v/v	B			
	DURANGO DMA	1.5 pt/a	D			
	N-PAK AMS	2.5 % v/v	D			
5	SURESTART II	2 pt/a	B	84 a	28.1647351 a	172.2 a
	DURANGO DMA	1.5 pt/a	B			
	WEEDAR 64	1 pt/a	B			
	N-PAK AMS	2.5 % v/v	B			
	DURANGO DMA	1.5 pt/a	D			
	N-PAK AMS	2.5 % v/v	D			
6	SURESTART II	2.5 pt/a	B	85 a	29.0266239 a	177.4 a
	DURANGO DMA	1.5 pt/a	B			
	WEEDAR 64	1 pt/a	B			
	N-PAK AMS	2.5 % v/v	B			
	DURANGO DMA	1.5 pt/a	D			
	N-PAK AMS	2.5 % v/v	D			
7	SURESTART II	2.5 pt/a	B	71 a	24.5016965 a	149.8 a
	AATREX	1 qt/a	B			
	DURANGO DMA	1.5 pt/a	B			
	WEEDAR 64	1 pt/a	B			
	N-PAK AMS	2.5 % v/v	B			
	DURANGO DMA	1.5 pt/a	D			
	N-PAK AMS	2.5 % v/v	D			

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Pest Type		W Weed		
Pest Code		IPOSS		
Pest Name		Morning glory		
Crop Code			ZEAMX	ZEAMX
Crop Name			Corn	Corn
Part Rated		PLOT P	YIELD C	YIELD C
Rating Date		8/14/2014	11/20/2014	11/20/2014
Rating Type		CONTRO	YIELD	YIELD
Rating Unit		%	lb/plot	BU
Number of Subsamples		1	1	1
Days After First/Last Applic.		98 57	196 155	196 155
Trt-Eval Interval		57 DA-D		
Days After Emergence		73 DE-1	171 DE-1	171 DE-1
ARM Action Codes		P		TY1
Number of Decimals		0		1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	26	27
8 SURESTART II	2 pt/a	C	60 a	21.7875104 a
DURANGO DMA	1.5 pt/a	C		
WEEDAR 64	1 pt/a	C		133.2 a
9 HARNESS XTRA	3.2 pt/a	B	60 a	21.2022671 a
ROUNDUP POWERMAX	1 qt/a	B		
N-PAK - AMS	2.5 % v/v	B		
IMPACT	0.75 fl oz/a	C		
AATREX	1 pt/a	C		
MSO ULTRA	1 % v/v	C		
UAN 28%	2.5 % v/v	C		
10 HARNESS XTRA	3.2 pt/a	B	78 a	27.3628886 a
ROUNDUP POWERMAX	1 qt/a	B		
N-PAK - AMS	2.5 % v/v	B		
ROUNDUP POWERMAX	1 qt/a	C		
N-PAK - AMS	2.5 % v/v	C		
11 HARNESS XTRA	3.2 pt/a	B	83 a	25.5223822 a
ROUNDUP POWERMAX	1 qt/a	B		
N-PAK - AMS	2.5 % v/v	B		
IMPACT	0.75 fl oz/a	C		
ROUNDUP POWERMAX	1 qt/a	C		
AATREX	1 pt/a	C		
MSO ULTRA	0.5 % v/v	C		
N-PAK - AMS	2.5 % v/v	C		
12 Untreated Check			0 b	3.9240326 b
LSD (P=.05)			29.8	6.52810036
Standard Deviation			20.6	4.51448789
CV			33.7	19.67
Bartlett's X2			11.961	17.109
P(Bartlett's X2)			0.216	0.105
Skewness			-0.7879*	-0.8354*
Kurtosis			-0.8782	-0.2367

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2014 CORN SHOWCASE PROGRAMS

Trial ID: 14S-SEP-NTC-09 Location: SEPAC Trial Year: 2014
 Protocol ID: 14S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: DOW

Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 5/27/2014 CONTRO % 1 19 19 0 DA-B -6 DE-1 P 0 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	39093.750000			
Replicate	3	18.750000	6.250000	1.000	0.4363
Treatment	3	39018.750000	13006.250000	2081.000	0.0001
Error	9	56.250000	6.250000		

Randomized Complete Block (RCB) AOV For W Weed PANDI Fall panicum PLOT P 5/27/2014 CONTRO % 1 19 19 0 DA-B -6 DE-1 P 0 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	39523.437500			
Replicate	3	4.687500	1.562500	1.000	0.4363
Treatment	3	39504.687500	13168.229167	8427.668	0.0001
Error	9	14.062500	1.562500		

Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 5/27/2014 CONTRO % 1 19 19 0 DA-B -6 DE-1 P 0 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	36698.437500			
Replicate	3	42.187500	14.062500	1.653	0.2455
Treatment	3	36579.687500	12193.229167	1433.327	0.0001
Error	9	76.562500	8.506944		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Common ragweed PLOT P 5/27/2014 CONTRO % 1 19 19 0 DA-B -6 DE-1 P 0 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	40000.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	3	40000.000000	13333.333333	0.000	1.0000
Error	9	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For ZEAMX Corn PLOT C 6/12/2014 PHYGEN % 1 35 16 0 DA-C 10 DE-1 P 0 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	44	517.062431			
Replicate	3	15.308702	5.102901	0.490	0.6921
Treatment	11	189.131389	17.193763	1.650	0.1349
Error	30	312.622340	10.420745		

Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 6/12/2014 CONTRO % 1 35 16 0 DA-C 10 DE-1 P 0 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	80200.000000			
Replicate	3	20.833333	6.944444	0.052	0.9842
Treatment	11	75750.000000	6886.363636	51.308	0.0001
Error	33	4429.166667	134.217172		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Common ragweed PLOT P 6/12/2014 CONTRO % 1 35 16 0 DA-C 10 DE-1 P 0 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	90000.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	90000.000000	8181.818182	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 6/12/2014 CONTRO % 1 35 16 0 DA-C 10 DE-1 P 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	46	85042.561677			
Replicate	3	33.149219	11.049740	0.282	0.8382
Treatment	11	83754.498316	7614.045301	194.156	0.0001
Error	32	1254.914141	39.216067		

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Randomized Complete Block (RCB) AOV For ZEAMX Corn PLOT C 6/18/2014 PHYGEN % 1 41 6 0 DA-D 16 DE-1 P 0 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	44	264.629916			
Replicate	3	7.166604	2.388868	0.402	0.7529
Treatment	11	79.018868	7.183533	1.208	0.3241
Error	30	178.444444	5.948148		
Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 6/18/2014 CONTRO % 1 41 6 0 DA-D 16 DE-1 P 0 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	63974.479167			
Replicate	3	134.895833	44.965278	0.220	0.8818
Treatment	11	57093.229167	5190.293561	25.388	0.0001
Error	33	6746.354167	204.434975		
Randomized Complete Block (RCB) AOV For W Weed AMBEL Common ragweed PLOT P 6/18/2014 CONTRO % 1 41 6 0 DA-D 16 DE-1 P 0 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	66466.666667			
Replicate	3	133.333333	44.444444	1.205	0.3230
Treatment	11	65116.666667	5919.696970	160.562	0.0001
Error	33	1216.666667	36.868687		
Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 6/18/2014 CONTRO % 1 41 6 0 DA-D 16 DE-1 P 0 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	64024.479167			
Replicate	3	218.229167	72.743056	2.042	0.1270
Treatment	11	62630.729167	5693.702652	159.837	0.0001
Error	33	1175.520833	35.621843		
Randomized Complete Block (RCB) AOV For ZEAMX Corn PLOT C 6/25/2014 PHYGEN % 1 48 7 7 DA-D 23 DE-1 P 0 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	48.134355			
Replicate	3	7.462516	2.487505	2.081	0.1282
Treatment	11	10.789785	0.980890	0.821	0.6212
Error	25	29.882055	1.195282		
Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 6/25/2014 CONTRO % 1 48 7 7 DA-D 23 DE-1 P 0 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	65449.479167			
Replicate	3	5.729167	1.909722	0.419	0.7408
Treatment	11	65293.229167	5935.748106	1301.346	0.0001
Error	33	150.520833	4.561237		
Randomized Complete Block (RCB) AOV For W Weed AMBEL Common ragweed PLOT P 6/25/2014 CONTRO % 1 48 7 7 DA-D 23 DE-1 P 0 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	66666.666667			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	66666.666667	6060.606061	0.000	1.0000
Error	33	0.000000	0.000000		
Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 6/25/2014 CONTRO % 1 48 7 7 DA-D 23 DE-1 P 0 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	66634.312500			
Replicate	3	0.062500	0.020833	1.000	0.4051
Treatment	11	66633.562500	6057.596591	290764.665	0.0001
Error	33	0.687500	0.020833		
Randomized Complete Block (RCB) AOV For ZEAMX Corn PLOT C 7/2/2014 PHYGEN % 1 55 14 14 DA-D 30 DE-1 P 0 (Data Column 17)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	38	163.479167			
Replicate	3	3.729167	1.243056	0.271	0.8456
Treatment	11	49.729167	4.520833	0.986	0.4850
Error	24	110.020833	4.584201		
Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 7/2/2014 CONTRO % 1 55 14 14 DA-D 30 DE-1 P 0 (Data Column 18)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	56721.916667			
Replicate	3	100.083333	33.361111	1.652	0.1963
Treatment	11	55955.416667	5086.856061	251.894	0.0001
Error	33	666.416667	20.194444		

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Randomized Complete Block (RCB) AOV For W Weed AMBEL Common ragweed PLOT P 7/2/2014 CONTRO % 1 55 14 14 DA-D 30 DE-1 P 0 (Data Column 19)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	66666.666667			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	66666.666667	6060.606061	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 7/2/2014 CONTRO % 1 55 14 14 DA-D 30 DE-1 P 0 (Data Column 20)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	65142.479167			
Replicate	3	32.062500	10.687500	1.132	0.3506
Treatment	11	64798.729167	5890.793561	623.689	0.0001
Error	33	311.687500	9.445076		

Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 7/10/2014 CONTRO % 1 63 22 22 DA-D 38 DE-1 P 0 (Data Column 21)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	40774.479167			
Replicate	3	47.395833	15.798611	0.196	0.8983
Treatment	11	38068.229167	3460.748106	42.953	0.0001
Error	33	2658.854167	80.571338		

Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 7/10/2014 CONTRO % 1 63 22 22 DA-D 38 DE-1 P 0 (Data Column 22)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	58841.666667			
Replicate	3	675.000000	225.000000	2.027	0.1291
Treatment	11	54504.166667	4954.924242	44.645	0.0001
Error	33	3662.500000	110.984848		

Randomized Complete Block (RCB) AOV For W Weed IPOSS Morning glory PLOT P 7/10/2014 CONTRO % 1 63 22 22 DA-D 38 DE-1 P 0 (Data Column 23)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	44	55098.600669			
Replicate	3	837.587292	279.195764	1.030	0.3933
Treatment	11	46130.157269	4193.650661	15.473	0.0001
Error	30	8130.856109	271.028537		

Randomized Complete Block (RCB) AOV For W Weed ECHCG Common barnyardgrass PLOT P 8/14/2014 CONTRO % 1 98 57 57 DA-D 73 DE-1 P 0 (Data Column 24)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36791.666667			
Replicate	3	79.166667	26.388889	0.229	0.8758
Treatment	11	32904.166667	2991.287879	25.920	0.0001
Error	33	3808.333333	115.404040		

Randomized Complete Block (RCB) AOV For W Weed XANST Heart-leaf cocklebur PLOT P 8/14/2014 CONTRO % 1 98 57 57 DA-D 73 DE-1 P 0 (Data Column 25)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	53497.916667			
Replicate	3	560.416667	186.805556	1.819	0.1629
Treatment	11	49547.916667	4504.356061	43.853	0.0001
Error	33	3389.583333	102.714646		

Randomized Complete Block (RCB) AOV For W Weed IPOSS Morning glory PLOT P 8/14/2014 CONTRO % 1 98 57 57 DA-D 73 DE-1 P 0 (Data Column 26)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	45	55259.670575			
Replicate	3	720.448567	240.149522	0.563	0.6433
Treatment	11	41320.962204	3756.451109	8.810	0.0001
Error	31	13218.259804	426.395478		

Randomized Complete Block (RCB) AOV For ZEAMX Corn YIELD C 11/20/2014 YIELD lb/plot 1 196 155 171 DE-1 (Data Column 27)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	4177.612198			
Replicate	3	118.301200	39.433733	1.935	0.1460
Treatment	11	3468.273691	315.297608	15.470	0.0001
Error	29	591.037307	20.380597		

Randomized Complete Block (RCB) AOV For ZEAMX Corn YIELD C 11/20/2014 YIELD BU 1 196 155 171 DE-1 TY1 1 (Data Column 28)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	156081.172838			
Replicate	3	4419.890883	1473.296961	1.935	0.1460
Treatment	11	129579.338562	11779.939869	15.470	0.0001
Error	29	22081.943392	761.446324		

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2014 CORN SHOWCASE PROGRAMS

Trial ID: 14S-SEP-NTC-09 Location: SEPAC Trial Year: 2014
 Protocol ID: 14S-SEP-NTC-09 Investigator: Dr. Bill Johnson
 Project ID: Study Director: Joe Ikley
 Sponsor Contact: DOW

Pest Type

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

Pest Code

ECHCG, Echinochloa crus-galli, = US

PANDI, Panicum dichotomiflorum, = US

XANST, Xanthium strumarium, = US

AMBEL, Ambrosia artemisiifolia, = US

IPOSS, Ipomoea sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Part Rated

PLOT = plot

YIELD = yield

P = Pest is Part Rated

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

ARM Action Codes

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

TY1 = 6.112392*[27]