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Corvus, Balance Flexx, Capreno, Laudis, Liberty / Field Corn

Trial ID: 13S-THP-CTC-10 Protocol ID: 13S-THP-CTC-10
 Location: Throckmorton Study Director:
 Project ID: HP13USABLT Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

General Trial Information

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: Mar-19-2013

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S

City: Lafayette **Phone No.:** 765-538-3422
State/Prov.: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DEKALB DKC61-21 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** May-9-2013
Planting Method: SEEDED seeded **Rate, Unit:** 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Soil Moisture: DRY dry **Soil Temperature, Unit:** 69 F
Emergence Date: May-18-2013

Pest Description

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

Pest 2 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 4 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

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Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	Tillage Type: CONTIL conventional-till
Replications: 4	Study Design: RACOBL Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

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

Application Description			
	A	B	C
Application Date:	May-9-2013	Jun-4-2013	Jun-14-2013
Time of Day:	AM	9 AM	7 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR	MIPOCR
Application Placement:	SOIL	FOLIAR	FOLIAR
Applied By:	MW	MW	MW
Air Temperature, Unit:	73 F	61 F	55 F
% Relative Humidity:	49	65	89
Wind Velocity, Unit:	6.3 MPH	2.5 MPH	2.5 MPH
Wind Direction:	SW	E	NE
Dew Presence (Y/N):	Y yes	Y yes	Y yes
Soil Temperature, Unit:	69 F	59 F	61 F
Soil Moisture:	DRY	WET	SLIWET
% Cloud Cover:	95	5	5

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		V3	V5

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:			7 IN
Height Minimum, Maximum:		1 4	
Density, Unit:		15 FT ²	10 FT ²
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:			14 IN
Height Minimum, Maximum:		1 5	
Density, Unit:		8 YD ²	3 YD ²
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:			6 IN
Height Minimum, Maximum:		1 3	
Density, Unit:		8 FT ²	8 YD ²
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		2 IN	5 IN
Density, Unit:		2 YD ²	2 YD ²

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Application Equipment

	A	B	C
Appl. Equipment:	CO2 FORD	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO	SPTRMO
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 100 02	XR 100 02	XR 100 02
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	6	6	6
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	2.1 MPH	2.1 MPH	2.1 MPH
Carrier:	MEIGS	MEIGS	MEIGS
Spray Volume, Unit:	20 gal/ac	20 gal/ac	20 gal/ac
Mix Size, Unit:	2.5 liters	2.5 liters	2.5 liters
Propellant:	CO2	CO2	CO2

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Corvus, Balance Flexx, Capreno, Laudis, Liberty / Field Corn

Trial ID: 13S-THP-CTC-10 Protocol ID: 13S-THP-CTC-10
 Location: Throckmorton Study Director:
 Project ID: HP13USABL Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 20 gal/ac Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	2	3	4
1	Untreated Check													101	405	702	805
2	Corvus (2.63 SC)	2.63	LBA/GAL	SC	1.84	oz ai/a	5.6	fl oz/a	ATPLAN	A		5.465 ml/mx		102	404	602	804
	Atrazine	4	LBA/GAL	F	1.5	lb ai/a	1.5	qt/a	ATPLAN	A		46.87 ml/mx					
3	Resolve (25 SG)	25	%	WG	0.2502	oz ai/a	1	oz wt/a	ATPLAN	A		0.9369 g/mx		104	502	704	901
	Mesotrione (50 WG)	50	%	WG	2.5	oz ai/a	5	oz wt/a	ATPLAN	A		4.681 g/mx					
	Atrazine	4	LBA/GAL	F	1.5	lb ai/a	1.5	qt/a	ATPLAN	A		46.87 ml/mx					
4	Tripleflex (4.25 SC)	4.25	LBA/GAL	SC	1.6	lb ai/a	3	pt/a	ATPLAN	A		47.05 ml/mx		105	402	605	904
	Atrazine	4	LBA/GAL	F	1.5	lb ai/a	1.5	qt/a	ATPLAN	A		46.87 ml/mx					
5	Lexar (3.7 SC)	3.7	LB/GAL	SL	2.78	lb ai/a	3	qt/a	ATPLAN	A		93.91 ml/mx		201	505	705	905
6	Balance Flexx (2 SC)	2	LBA/GAL	SC	1.5	oz ai/a	6	fl oz/a	ATPLAN	A		5.859 ml/mx		202	501	802	1005
	Bicep II Magnum (5.5 SC)	5.5	LB/GAL	SC	2.75	lb ai/a	2	qt/a	ATPLAN	A		62.49 ml/mx					
7	Capreno (3.45 SL)	3.45	LB/GAL	SC	1.3	oz ai/a	3	fl oz/a	EAPOCR	B	V3 CORN	2.944 ml/mx		204	401	601	902
	Atrazine	4	LBA/GAL	F	1	lb ai/a	1	qt/a	EAPOCR	B	V3 CORN	31.25 ml/mx					
	Roundup PowerMax 4.5 SL	4.5	LBAE/GAL	SL	0.77	lb ae/a	22	fl oz/a	EAPOCR	B	V3 CORN	21.39 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	EAPOCR	B	V3 CORN	62.49 ml/mx					
8	Capreno (3.45 SL)	3.45	LB/GAL	SC	1.3	oz ai/a	3	fl oz/a	EAPOCR	B	V3 CORN	2.944 ml/mx		205	305	604	1004
	Clarity (4 SL)	4	LBAE/GAL	SL	0.5	lb ae/a	1	pt/a	EAPOCR	B	V3 CORN	15.62 ml/mx					
	Roundup PowerMax 4.5 SL	4.5	LBAE/GAL	SL	0.77	lb ae/a	22	fl oz/a	EAPOCR	B	V3 CORN	21.39 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	EAPOCR	B	V3 CORN	62.49 ml/mx					
9	Halex GT (4.39 SC)	4.39	LBA/GAL	SC	31.6	oz ai/a	3.6	pt/a	EAPOCR	B	V3 CORN	56.23 ml/mx		301	304	701	1001
	Atrazine	4	LBA/GAL	F	1	lb ai/a	1	qt/a	EAPOCR	B	V3 CORN	31.25 ml/mx					
	NIS	100	%	SL	0.25	% v/v	0.25	% v/v	EAPOCR	B	V3 CORN	6.249 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	EAPOCR	B	V3 CORN	62.49 ml/mx					
10	Tripleflex (4.25 SC)	4.25	LBA/GAL	SC	0.8	lb ai/a	1.5	pt/a	EAPOCR	B	V3 CORN	23.53 ml/mx		302	504	801	1002
	Roundup PowerMax 4.5 SL	4.5	LBAE/GAL	SL	0.77	lb ae/a	22	fl oz/a	EAPOCR	B	V3 CORN	21.39 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	EAPOCR	B	V3 CORN	62.49 ml/mx					
11	Balance Flexx (2 SC)	2	LBA/GAL	SC	1	oz ai/a	4	fl oz/a	ATPLAN	A		3.906 ml/mx		103	403	606	1006
	Atrazine	4	LBA/GAL	F	1.5	lb ai/a	1.5	qt/a	ATPLAN	A		46.87 ml/mx					
	Tripleflex (4.25 SC)	4.25	LBA/GAL	SC	0.8	lb ai/a	1.5	pt/a	EAPOCR	B	V3 CORN	23.53 ml/mx					
	Liberty 280 (2.34 SL)	2.34	LBA/GAL	SL	0.402	lb ai/a	22	fl oz/a	EAPOCR	B	V3 CORN	21.47 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	EAPOCR	B	V3 CORN	62.49 ml/mx					
12	Corvus (2.63 SC)	2.63	LBA/GAL	SC	1.15	oz ai/a	3.5	fl oz/a	ATPLAN	A		3.416 ml/mx		106	306	706	903
	Atrazine	4	LBA/GAL	F	1	lb ai/a	1	qt/a	ATPLAN	A		31.25 ml/mx					
	Status (56 SG)	56	%	SG	2.8	oz ai/a	5	oz wt/a	MIPOCR	C	V5 CORN	4.681 g/mx					
	Roundup PowerMax 4.5 SL	4.5	LBAE/GAL	SL	0.77	lb ae/a	22	fl oz/a	MIPOCR	C	V5 CORN	21.39 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	MIPOCR	C	V5 CORN	62.49 ml/mx					
13	Degree Xtra (4.04 CS)	4.04	LBA/GAL	SC	3.23	lb ai/a	3.2	qt/a	ATPLAN	A		99.93 ml/mx		203	506	603	906
	Laudis (3.5 SL)	3.5	LB/GAL	SC	0.875	oz ai/a	2	fl oz/a	MIPOCR	C	V5 CORN	1.953 ml/mx					
	Clarity (4 SL)	4	LBAE/GAL	SL	0.25	lb ae/a	8	fl oz/a	MIPOCR	C	V5 CORN	7.812 ml/mx					
	MSO	100	%	L	1	% v/v	1	% v/v	MIPOCR	C	V5 CORN	25.0 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	MIPOCR	C	V5 CORN	62.49 ml/mx					
14	Balance Flexx (2 SC)	2	LBA/GAL	SC	1	oz ai/a	4	fl oz/a	ATPLAN	A		3.906 ml/mx		206	406	803	806
	Atrazine	4	LBA/GAL	F	1.5	lb ai/a	1.5	qt/a	ATPLAN	A		46.87 ml/mx					
	Clarity (4 SL)	4	LBAE/GAL	SL	0.25	lb ae/a	8	fl oz/a	MIPOCR	C	V5 CORN	7.812 ml/mx					
	Liberty 280 (2.34 SL)	2.34	LBA/GAL	SL	0.4	lb ai/a	22	fl oz/a	MIPOCR	C	V5 CORN	21.37 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	MIPOCR	C	V5 CORN	62.49 ml/mx					
15	Resolve (25 SG)	25	%	WG	0.276	oz ai/a	1.1	oz wt/a	ATPLAN	A		1.034 g/mx		303	503	703	1003
	Harmony SG (50 SG)	50	%	SG	0.06	oz ai/a	0.12	oz wt/a	ATPLAN	A		0.1123 g/mx					
	Isoxadifen (50 WG)	50	%	WG	0.138	oz ai/a	0.276	oz wt/a	ATPLAN	A		0.2584 g/mx					
	Roundup PowerMax 4.5 SL	4.5	LBAE/GAL	SL	0.77	lb ae/a	22	fl oz/a	MIPOCR	C	V5 CORN	21.39 ml/mx					
	AMS - Liquid	3.4	LB/GAL	SL	8.5	lb ai/100 gal	10	qt/100 gal	MIPOCR	C	V5 CORN	62.49 ml/mx					

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Reps: 4
Spray vol: 20 gal/ac
Sort Order: Treatment

Plots: 10 by 30 feet
Mix size: 2.5 liters (min 2.0856)

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Corvus, Balance Flexx, Capreno, Laudis, Liberty / Field Corn

Trial ID: 13S-THP-CTC-10 Protocol ID: 13S-THP-CTC-10
 Location: Throckmorton Study Director:
 Project ID: HP13USABLT Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	ABUTH	CHEAL	AMARE			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium ai>	Amaranthus ret>			
Pest Name	Giant foxtail	Giant ragweed	velvetleaf	Common lambsqu>	Redroot pigweed			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V3	V3	V3	V3	V3	V3		
Pest Stage Majority	4 IN	5 IN	2 IN	2.5 IN	2 IN			
Pest Density, Unit	15 FT2	5 YD2	2 FT2	7 FT2	4 FT2			
Assessed By	MW	MW	MW	MW	MW	MW		
Days After First/Last Applic.	25 25	25 25	25 25	25 25	25 25	25 25		
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0	0.0	0.0
		805	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 Corvus (2.63 SC)	1.84 oz ai/a	A 102	90.0	90.0	99.0	99.0	99.0	0.0
Atrazine	1.5 lb ai/a	A 404	90.0	85.0	99.0	99.0	99.0	0.0
		602	95.0	80.0	99.0	99.0	99.0	0.0
		804	90.0	85.0	99.0	99.0	99.0	0.0
		Mean =	91.3	85.0	99.0	99.0	99.0	0.0
3 Resolve (25 SG)	0.2502 oz ai/a	A 104	80.0	90.0	99.0	99.0	99.0	0.0
Mesotrione (50 WG)	2.5 oz ai/a	A 502	70.0	75.0	99.0	99.0	99.0	0.0
Atrazine	1.5 lb ai/a	A 704	75.0	85.0	99.0	99.0	99.0	0.0
		901	80.0	85.0	99.0	95.0	99.0	0.0
		Mean =	76.3	83.8	99.0	98.0	99.0	0.0
4 Tripleflex (4.25 SC)	1.6 lb ai/a	A 105	90.0	90.0	99.0	99.0	99.0	0.0
Atrazine	1.5 lb ai/a	A 402	75.0	60.0	60.0	70.0	99.0	0.0
		605	90.0	60.0	99.0	99.0	99.0	0.0
		904	90.0	95.0	99.0	99.0	99.0	0.0
		Mean =	86.3	76.3	89.3	91.8	99.0	0.0
5 Lexar (3.7 SC)	2.78 lb ai/a	A 201	75.0	80.0	60.0	80.0	99.0	0.0
		505	65.0	85.0	99.0	99.0	99.0	0.0
		705	90.0	90.0	99.0	99.0	99.0	0.0
		905	95.0	85.0	99.0	90.0	99.0	0.0
		Mean =	81.3	85.0	89.3	92.0	99.0	0.0
6 Balance Flexx (2 SC)	1.5 oz ai/a	A 202	97.0	85.0	90.0	99.0	99.0	0.0
Bicep II Magnum (5.5 SC)	2.75 lb ai/a	A 501	85.0	60.0	99.0	99.0	99.0	0.0
		802	97.0	85.0	99.0	99.0	99.0	0.0
		1005	90.0	90.0	99.0	99.0	99.0	0.0
		Mean =	92.3	80.0	96.8	99.0	99.0	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR	ABUTH	CHEAL	AMARE	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium al>	Amaranthus ret>	
Pest Name	Giant foxtail	Giant ragweed	velvetleaf	Common lambsqu>	Redroot pigweed	
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V3	V3	V3	V3	V3	V3
Pest Stage Majority	4 IN	5 IN	2 IN	2.5 IN	2 IN	
Pest Density, Unit	15 FT2	5 YD2	2 FT2	7 FT2	4 FT2	
Assessed By	MW	MW	MW	MW	MW	MW
Days After First/Last Applic.	25 25	25 25	25 25	25 25	25 25	25 25
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
7 Capreno (3.45 SL)	1.3 oz ai/a	B 204	40.0	0.0	0.0	0.0
Atrazine	1 lb ai/a	B 401	0.0	0.0	0.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 601	20.0	70.0	40.0	30.0
AMS - Liquid	8.5 lb ai/100 gal	B 902	0.0	0.0	0.0	0.0
		Mean =	15.0	17.5	10.0	7.5
8 Capreno (3.45 SL)	1.3 oz ai/a	B 205	50.0	0.0	0.0	0.0
Clarity (4 SL)	0.5 lb ae/a	B 305	40.0	0.0	0.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 604	0.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	20.0	0.0	0.0	0.0
		Mean =	27.5	0.0	0.0	0.0
9 Halex GT (4.39 SC)	31.6 oz ai/a	B 301	0.0	0.0	0.0	0.0
Atrazine	1 lb ai/a	B 304	0.0	0.0	99.0	0.0
NIS	0.25 % v/v	B 701	40.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 1001	40.0	70.0	60.0	50.0
		Mean =	20.0	17.5	39.8	12.5
10 Tripleflex (4.25 SC)	0.8 lb ai/a	B 302	90.0	90.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 504	0.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 801	40.0	60.0	10.0	0.0
		1002	0.0	0.0	0.0	0.0
		Mean =	32.5	37.5	27.3	24.8
11 Balance Flexx (2 SC)	1 oz ai/a	A 103	70.0	80.0	90.0	99.0
Atrazine	1.5 lb ai/a	A 403	85.0	50.0	60.0	99.0
Tripleflex (4.25 SC)	0.8 lb ai/a	B 606	70.0	60.0	99.0	99.0
Liberty 280 (2.34 SL)	0.402 lb ai/a	B 1006	50.0	65.0	99.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	B				
		Mean =	68.8	63.8	87.0	99.0
12 Corvus (2.63 SC)	1.15 oz ai/a	A 106	60.0	65.0	70.0	99.0
Atrazine	1 lb ai/a	A 306	85.0	80.0	70.0	99.0
Status (56 SG)	2.8 oz ai/a	C 706	90.0	75.0	99.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 903	75.0	95.0	99.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	C				
		Mean =	77.5	78.8	84.5	99.0

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	W Weed SETFA	W Weed AMBTR	W Weed ABUTH	W Weed CHEAL	W Weed AMARE			
Pest Type	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium al>	Amaranthus ret>			
Pest Code	Giant foxtail	Giant ragweed	velvetleaf	Common lambsqu>	Redroot pigweed			
Pest Scientific Name								
Pest Name								
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V3	V3	V3	V3	V3	V3		
Pest Stage Majority	4 IN	5 IN	2 IN	2.5 IN	2 IN			
Pest Density, Unit	15 FT2	5 YD2	2 FT2	7 FT2	4 FT2			
Assessed By	MW	MW	MW	MW	MW	MW		
Days After First/Last Applic.	25 25	25 25	25 25	25 25	25 25	25 25		
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A 203	80.0	80.0	99.0	90.0	99.0	0.0
Laudis (3.5 SL)	0.875 oz ai/a	C 506	50.0	0.0	0.0	0.0	0.0	0.0
Clarity (4 SL)	0.25 lb ae/a	C 603	50.0	0.0	99.0	50.0	99.0	0.0
MSO	1 % v/v	C 906	60.0	0.0	0.0	0.0	0.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
	Mean =		60.0	20.0	49.5	35.0	49.5	0.0
14 Balance Flexx (2 SC)	1 oz ai/a	A 206	85.0	85.0	99.0	99.0	99.0	0.0
Atrazine	1.5 lb ai/a	A 406	85.0	85.0	99.0	99.0	99.0	0.0
Clarity (4 SL)	0.25 lb ae/a	C 803	90.0	75.0	99.0	99.0	99.0	0.0
Liberty 280 (2.34 SL)	0.4 lb ai/a	C 806	95.0	40.0	70.0	99.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
	Mean =		88.8	71.3	91.8	99.0	99.0	0.0
15 Resolve (25 SG)	0.276 oz ai/a	A 303	50.0	75.0	99.0	99.0	99.0	0.0
Harmony SG (50 SG)	0.06 oz ai/a	A 503	60.0	40.0	20.0	99.0	99.0	0.0
Isoxadifen (50 WG)	0.138 oz ai/a	A 703	80.0	70.0	20.0	99.0	99.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 1003	65.0	50.0	20.0	99.0	85.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
	Mean =		63.8	58.8	39.8	99.0	95.5	0.0

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Pest Type			W Weed	W Weed	W Weed		W Weed	
Pest Code			AMBTR	SETSS	CHEAL		AMBTR	
Pest Scientific Name			Ambrosia trifi>	Setaria sp.	Chenopodium al>		Ambrosia trifi>	
Pest Name			Giant ragweed	Foxtail millet	Common lambsqu>		Giant ragweed	
Crop Code	ZEAMX					ZEAMX		
BBCB Scale	BCOR					BCOR		
Crop Scientific Name	Zea mays					Zea mays		
Crop Name	Corn					Corn		
Rating Date	Jun-12-2013		Jun-12-2013	Jun-12-2013	Jun-12-2013	Jul-18-2013	Jul-18-2013	
Rating Type	PHYGEN		CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	
Rating Unit	%		%	%	%	%	%	
Number of Subsamples	1		1	1	1	1	1	
Crop Stage Majority	V5					V6		
Pest Stage Majority								
Pest Density, Unit								
Assessed By	Jl		Jl	Jl	Jl	PRATAB	PRATAB	
Days After First/Last Applic.	34 8		34 8	34 8	34 8	70 34	70 34	
Plant-Eval Interval	34 DP-1		34 DP-1	34 DP-1	34 DP-1	70 DP-1	70 DP-1	
Days After Emergence	25 DE-1		25 DE-1	25 DE-1	25 DE-1	61 DE-1	61 DE-1	
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0	0.0	0.0
		805	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 Corvus (2.63 SC)	1.84 oz ai/a	A 102	0.0	95.0	75.0	100.0	0.0	80.0
Atrazine	1.5 lb ai/a	A 404	0.0	95.0	75.0	100.0	0.0	80.0
		602	0.0	85.0	90.0	100.0	0.0	45.0
		804	0.0	95.0	85.0	99.0	0.0	80.0
		Mean =	0.0	92.5	81.3	99.8	0.0	71.3
3 Resolve (25 SG)	0.2502 oz ai/a	A 104	0.0	90.0	30.0	100.0	0.0	85.0
Mesotrione (50 WG)	2.5 oz ai/a	A 502	0.0	65.0	30.0	100.0	0.0	40.0
Atrazine	1.5 lb ai/a	A 704	0.0	80.0	35.0	99.0	0.0	60.0
		901	0.0	80.0	50.0	99.0	0.0	60.0
		Mean =	0.0	78.8	36.3	99.5	0.0	61.3
4 Tripleflex (4.25 SC)	1.6 lb ai/a	A 105	0.0	80.0	80.0	100.0	5.0	65.0
Atrazine	1.5 lb ai/a	A 402	0.0	65.0	50.0	90.0	15.0	20.0
		605	0.0	75.0	80.0	95.0	0.0	20.0
		904	0.0	90.0	90.0	99.0	0.0	40.0
		Mean =	0.0	77.5	75.0	96.0	5.0	36.3
5 Lexar (3.7 SC)	2.78 lb ai/a	A 201	0.0	60.0	50.0	70.0	0.0	40.0
		505	0.0	70.0	75.0	100.0	0.0	30.0
		705	0.0	100.0	85.0	99.0	0.0	80.0
		905	0.0	85.0	95.0	99.0	0.0	80.0
		Mean =	0.0	78.8	76.3	92.0	0.0	57.5
6 Balance Flexx (2 SC)	1.5 oz ai/a	A 202	0.0	80.0	90.0	100.0	0.0	70.0
Bicep II Magnum (5.5 SC)	2.75 lb ai/a	A 501	0.0	40.0	65.0	75.0	0.0	20.0
		802	0.0	90.0	100.0	99.0	5.0	70.0
		1005	0.0	85.0	95.0	99.0	0.0	80.0
		Mean =	0.0	73.8	87.5	93.3	1.3	60.0

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Pest Type		W Weed	W Weed	W Weed		W Weed		W Weed		W Weed
Pest Code		AMBTR	SETSS	CHEAL		AMBTR		AMBTR		AMBTR
Pest Scientific Name		Ambrosia trifi>	Setaria sp.	Chenopodium al>		Ambrosia trifi>		Ambrosia trifi>		Ambrosia trifi>
Pest Name		Giant ragweed	Foxtail millet	Common lambsqu>		Giant ragweed		Giant ragweed		Giant ragweed
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
Rating Date		Jun-12-2013	Jun-12-2013	Jun-12-2013		Jun-12-2013	Jun-18-2013	Jun-12-2013	Jul-18-2013	Jun-12-2013
Rating Type		PHYGEN	CONTRO	CONTRO		CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%		%	%	%	%	%
Number of Subsamples		1	1	1		1	1	1	1	1
Crop Stage Majority		V5					V6			
Pest Stage Majority										
Pest Density, Unit										
Assessed By		Jl	Jl	Jl		Jl	PRATAB	Jl	PRATAB	PRATAB
Days After First/Last Applic.		34 8	34 8	34 8		34 8	70 34	34 8	70 34	70 34
Plant-Eval Interval		34 DP-1	34 DP-1	34 DP-1		34 DP-1	70 DP-1	34 DP-1	70 DP-1	70 DP-1
Days After Emergence		25 DE-1	25 DE-1	25 DE-1		25 DE-1	61 DE-1	25 DE-1	61 DE-1	61 DE-1
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12		
7 Capreno (3.45 SL)	1.3 oz ai/a	B 204	0.0	85.0	95.0	100.0	0.0	85.0		
Atrazine	1 lb ai/a	B 401	0.0	95.0	100.0	100.0	0.0	85.0		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 601	0.0	90.0	100.0	100.0	0.0	90.0		
AMS - Liquid	8.5 lb ai/100 gal	B 902	0.0	95.0	100.0	99.0	5.0	95.0		
	Mean =		0.0	91.3	98.8	99.8	1.3	88.8		
8 Capreno (3.45 SL)	1.3 oz ai/a	B 205	5.0	95.0	100.0	100.0	5.0	98.0		
Clarity (4 SL)	0.5 lb ae/a	B 305	0.0	100.0	95.0	100.0	5.0	90.0		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 604	0.0	70.0	80.0	90.0	5.0	90.0		
AMS - Liquid	8.5 lb ai/100 gal	B 1004	0.0	95.0	100.0	99.0	10.0	98.0		
	Mean =		1.3	90.0	93.8	97.3	6.3	94.0		
9 Halex GT (4.39 SC)	31.6 oz ai/a	B 301	0.0	95.0	100.0	100.0	0.0	90.0		
Atrazine	1 lb ai/a	B 304	0.0	90.0	100.0	100.0	5.0	90.0		
NIS	0.25 % v/v	B 701	0.0	95.0	100.0	100.0	0.0	85.0		
AMS - Liquid	8.5 lb ai/100 gal	B 1001	0.0	95.0	100.0	99.0	10.0	90.0		
	Mean =		0.0	93.8	100.0	99.8	3.8	88.8		
10 Tripleflex (4.25 SC)	0.8 lb ai/a	B 302	0.0	95.0	100.0	100.0	5.0	90.0		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 504	0.0	85.0	100.0	100.0	0.0	80.0		
AMS - Liquid	8.5 lb ai/100 gal	B 801	5.0	90.0	90.0	99.0	10.0	85.0		
		1002	0.0	80.0	100.0	99.0	0.0	85.0		
	Mean =		1.3	87.5	97.5	99.5	3.8	85.0		
11 Balance Flexx (2 SC)	1 oz ai/a	A 103	5.0	95.0	100.0	95.0	0.0	85.0		
Atrazine	1.5 lb ai/a	A 403	5.0	95.0	95.0	100.0	5.0	85.0		
Tripleflex (4.25 SC)	0.8 lb ai/a	B 606	10.0	90.0	85.0	100.0	5.0	80.0		
Liberty 280 (2.34 SL)	0.402 lb ai/a	B 1006	5.0	100.0	90.0	99.0	0.0	85.0		
AMS - Liquid	8.5 lb ai/100 gal	B								
	Mean =		6.3	95.0	92.5	98.5	2.5	83.8		
12 Corvus (2.63 SC)	1.15 oz ai/a	A 106	0.0	35.0	50.0	100.0	10.0	60.0		
Atrazine	1 lb ai/a	A 306	0.0	35.0	50.0	100.0	15.0	70.0		
Status (56 SG)	2.8 oz ai/a	C 706	0.0	70.0	70.0	99.0	5.0	60.0		
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 903	0.0	85.0	30.0	99.0	5.0	90.0		
AMS - Liquid	8.5 lb ai/100 gal	C								
	Mean =		0.0	56.3	50.0	99.5	8.8	70.0		

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		AMBTR	SETSS	CHEAL	AMBTR	
Pest Scientific Name		Ambrosia trifi>	Setaria sp.	Chenopodium al>	Ambrosia trifi>	
Pest Name		Giant ragweed	Foxtail millet	Common lambsqu>	Giant ragweed	
Crop Code	ZEAMX				ZEAMX	
BBCH Scale	BCOR				BCOR	
Crop Scientific Name	Zea mays				Zea mays	
Crop Name	Corn				Corn	
Rating Date	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jul-18-2013	Jul-18-2013
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V5				V6	
Pest Stage Majority						
Pest Density, Unit						
Assessed By	Jl	Jl	Jl	Jl	PRATAB	PRATAB
Days After First/Last Applic.	34 8	34 8	34 8	34 8	70 34	70 34
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	70 DP-1	70 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	61 DE-1	61 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	7	8	9	10
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A 203	0.0	65.0	70.0	90.0
Laudis (3.5 SL)	0.875 oz ai/a	C 506	0.0	0.0	0.0	0.0
Clarity (4 SL)	0.25 lb ae/a	C 603	0.0	0.0	0.0	0.0
MSO	1 % v/v	C 906	0.0	0.0	0.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	C				10.0
	Mean =		0.0	16.3	17.5	47.3
14 Balance Flexx (2 SC)	1 oz ai/a	A 206	0.0	60.0	50.0	100.0
Atrazine	1.5 lb ai/a	A 406	0.0	65.0	75.0	85.0
Clarity (4 SL)	0.25 lb ae/a	C 803	0.0	85.0	85.0	99.0
Liberty 280 (2.34 SL)	0.4 lb ai/a	C 806	0.0	65.0	85.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	C				0.0
	Mean =		0.0	68.8	73.8	95.8
15 Resolve (25 SG)	0.276 oz ai/a	A 303	0.0	90.0	65.0	100.0
Harmony SG (50 SG)	0.06 oz ai/a	A 503	0.0	40.0	30.0	100.0
Isoxadifen (50 WG)	0.138 oz ai/a	A 703	0.0	20.0	50.0	99.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 1003	0.0	40.0	10.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	C				5.0
	Mean =		0.0	47.5	38.8	99.5

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Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code				CHEAL	SETFA	SETFA	AMBTR	CHEAL							
Pest Scientific Name				Chenopodium al>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>							
Pest Name				Common lambsqu>	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>							
Crop Code									ZEAMX						
BBCH Scale									BCOR						
Crop Scientific Name									Zea mays						
Crop Name									Corn						
Rating Date				Jul-18-2013	Jul-18-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013						
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN						
Rating Unit				%	%	%	%	%	%						
Number of Subsamples				1	1	1	1	1	1						
Crop Stage Majority															
Pest Stage Majority						40 IN	60 IN	36 IN							
Pest Density, Unit						15 FT2	6 YD2	1 YD2							
Assessed By				PRATAB	PRATAB	MW	MW	MW	MW						
Days After First/Last Applic.				70 34	70 34	57 21	57 21	57 21	57 21						
Plant-Eval Interval				70 DP-1	70 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1						
Days After Emergence				61 DE-1	61 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1						
Trt	Treatment	Rate	Appl	13		14		15		16		17		18	
No.	Name	Rate	Unit	Code	Plot										
1	Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					405	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					702	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					805	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
2	Corvus (2.63 SC)	1.84 oz ai/a	A	102	100.0	100.0	70.0	90.0	95.0	99.0	99.0	99.0	99.0	0.0	0.0
	Atrazine	1.5 lb ai/a	A	404	100.0	100.0	75.0	85.0	93.0	99.0	99.0	99.0	99.0	0.0	0.0
				602	100.0	100.0	75.0	85.0	70.0	99.0	99.0	99.0	99.0	0.0	0.0
				804	100.0	100.0	80.0	87.0	90.0	99.0	99.0	99.0	99.0	0.0	0.0
				Mean =	100.0	100.0	75.0	86.8	87.0	99.0	99.0	99.0	99.0	0.0	0.0
3	Resolve (25 SG)	0.2502 oz ai/a	A	104	100.0	100.0	55.0	75.0	95.0	99.0	99.0	99.0	99.0	0.0	0.0
	Mesotrione (50 WG)	2.5 oz ai/a	A	502	100.0	100.0	30.0	50.0	60.0	90.0	90.0	90.0	90.0	0.0	0.0
	Atrazine	1.5 lb ai/a	A	704	100.0	100.0	45.0	30.0	90.0	99.0	99.0	99.0	99.0	0.0	0.0
				901	100.0	100.0	50.0	60.0	40.0	99.0	99.0	99.0	99.0	0.0	0.0
				Mean =	100.0	100.0	45.0	53.8	71.3	96.8	96.8	96.8	96.8	0.0	0.0
4	Tripleflex (4.25 SC)	1.6 lb ai/a	A	105	100.0	100.0	60.0	85.0	90.0	99.0	99.0	99.0	99.0	0.0	0.0
	Atrazine	1.5 lb ai/a	A	402	40.0	40.0	25.0	40.0	50.0	60.0	60.0	60.0	60.0	0.0	0.0
				605	100.0	100.0	40.0	70.0	75.0	99.0	99.0	99.0	99.0	0.0	0.0
				904	80.0	80.0	65.0	80.0	87.0	99.0	99.0	99.0	99.0	0.0	0.0
				Mean =	80.0	80.0	47.5	68.8	75.5	89.3	89.3	89.3	89.3	0.0	0.0
5	Lexar (3.7 SC)	2.78 lb ai/a	A	201	20.0	20.0	20.0	60.0	50.0	80.0	80.0	80.0	80.0	0.0	0.0
				505	100.0	100.0	10.0	60.0	70.0	99.0	99.0	99.0	99.0	0.0	0.0
				705	100.0	100.0	60.0	70.0	95.0	99.0	99.0	99.0	99.0	0.0	0.0
				905	10.0	10.0	75.0	85.0	85.0	99.0	99.0	99.0	99.0	0.0	0.0
				Mean =	57.5	57.5	41.3	68.8	75.0	94.3	94.3	94.3	94.3	0.0	0.0
6	Balance Flexx (2 SC)	1.5 oz ai/a	A	202	80.0	80.0	70.0	90.0	90.0	90.0	90.0	90.0	90.0	0.0	0.0
	Bicep II Magnum (5.5 SC)	2.75 lb ai/a	A	501	100.0	100.0	40.0	70.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0
				802	100.0	100.0	100.0	95.0	87.0	99.0	99.0	99.0	99.0	0.0	0.0
				1005	100.0	100.0	85.0	90.0	93.0	99.0	99.0	99.0	99.0	0.0	0.0
				Mean =	95.0	95.0	73.8	86.3	82.5	72.0	72.0	72.0	72.0	0.0	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	SETFA	SETFA	AMBTR	CHEAL			
Pest Scientific Name	Chenopodium al>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Common lambsqu>	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code						ZEAMX		
BBCH Scale						BCOR		
Crop Scientific Name						Zea mays		
Crop Name						Corn		
Rating Date	Jul-18-2013	Jul-18-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority								
Pest Stage Majority			40 IN	60 IN	36 IN			
Pest Density, Unit			15 FT2	6 YD2	1 YD2			
Assessed By	PRATAB	PRATAB	MW	MW	MW	MW		
Days After First/Last Applic.	70 34	70 34	57 21	57 21	57 21	57 21		
Plant-Eval Interval	70 DP-1	70 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	61 DE-1	61 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
7 Capreno (3.45 SL)	1.3 oz ai/a	B 204	100.0	90.0	93.0	95.0	99.0	0.0
Atrazine	1 lb ai/a	B 401	100.0	90.0	93.0	95.0	99.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 601	100.0	95.0	90.0	90.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 902	100.0	100.0	93.0	95.0	99.0	0.0
		Mean =	100.0	93.8	92.3	93.8	99.0	0.0
8 Capreno (3.45 SL)	1.3 oz ai/a	B 205	100.0	90.0	95.0	95.0	99.0	0.0
Clarity (4 SL)	0.5 lb ae/a	B 305	100.0	90.0	90.0	95.0	99.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 604	100.0	90.0	87.0	97.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 1004	100.0	95.0	95.0	97.0	99.0	0.0
		Mean =	100.0	91.3	91.8	96.0	99.0	0.0
9 Halex GT (4.39 SC)	31.6 oz ai/a	B 301	100.0	98.0	93.0	95.0	99.0	0.0
Atrazine	1 lb ai/a	B 304	100.0	100.0	99.0	99.0	99.0	0.0
NIS	0.25 % v/v	B 701	100.0	98.0	95.0	87.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 1001	100.0	100.0	99.0	97.0	99.0	0.0
		Mean =	100.0	99.0	96.5	94.5	99.0	0.0
10 Tripleflex (4.25 SC)	0.8 lb ai/a	B 302	100.0	100.0	97.0	97.0	99.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 504	100.0	98.0	95.0	95.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B 801	100.0	98.0	93.0	93.0	99.0	0.0
		1002	100.0	95.0	95.0	93.0	99.0	0.0
		Mean =	100.0	97.8	95.0	94.5	99.0	0.0
11 Balance Flexx (2 SC)	1 oz ai/a	A 103	100.0	90.0	95.0	95.0	99.0	0.0
Atrazine	1.5 lb ai/a	A 403	100.0	90.0	95.0	90.0	99.0	0.0
Tripleflex (4.25 SC)	0.8 lb ai/a	B 606	100.0	85.0	93.0	93.0	99.0	0.0
Liberty 280 (2.34 SL)	0.402 lb ai/a	B 1006	100.0	90.0	93.0	95.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	B						
		Mean =	100.0	88.8	94.0	93.3	99.0	0.0
12 Corvus (2.63 SC)	1.15 oz ai/a	A 106	100.0	65.0	97.0	95.0	99.0	0.0
Atrazine	1 lb ai/a	A 306	100.0	75.0	95.0	97.0	99.0	0.0
Status (56 SG)	2.8 oz ai/a	C 706	90.0	70.0	97.0	97.0	99.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 903	100.0	85.0	95.0	95.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
		Mean =	97.5	73.8	96.0	96.0	99.0	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	SETFA	SETFA	AMBTR	CHEAL			
Pest Scientific Name	Chenopodium al>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Common lambsqu>	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code						ZEAMX		
BBCH Scale						BCOR		
Crop Scientific Name						Zea mays		
Crop Name						Com		
Rating Date	Jul-18-2013	Jul-18-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority								
Pest Stage Majority			40 IN	60 IN	36 IN			
Pest Density, Unit			15 FT2	6 YD2	1 YD2			
Assessed By	PRATAB	PRATAB	MW	MW	MW	MW		
Days After First/Last Applic.	70 34	70 34	57 21	57 21	57 21	57 21		
Plant-Eval Interval	70 DP-1	70 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	61 DE-1	61 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A 203	100.0	75.0	93.0	95.0	99.0	0.0
Laudis (3.5 SL)	0.875 oz ai/a	C 506	60.0	30.0	20.0	93.0	99.0	0.0
Clarity (4 SL)	0.25 lb ae/a	C 603	60.0	50.0	50.0	95.0	99.0	0.0
MSO	1 % v/v	C 906	75.0	50.0	50.0	70.0	70.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
	Mean =		73.8	51.3	53.3	88.3	91.8	0.0
14 Balance Flexx (2 SC)	1 oz ai/a	A 206	100.0	95.0	95.0	97.0	99.0	0.0
Atrazine	1.5 lb ai/a	A 406	100.0	95.0	97.0	99.0	99.0	0.0
Clarity (4 SL)	0.25 lb ae/a	C 803	100.0	95.0	97.0	99.0	99.0	0.0
Liberty 280 (2.34 SL)	0.4 lb ai/a	C 806	95.0	85.0	95.0	97.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
	Mean =		98.8	92.5	96.0	98.0	99.0	0.0
15 Resolve (25 SG)	0.276 oz ai/a	A 303	100.0	70.0	85.0	95.0	99.0	0.0
Harmony SG (50 SG)	0.06 oz ai/a	A 503	100.0	60.0	95.0	87.0	99.0	0.0
Isoxadifen (50 WG)	0.138 oz ai/a	A 703	90.0	70.0	93.0	87.0	99.0	0.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 1003	100.0	75.0	95.0	95.0	99.0	0.0
AMS - Liquid	8.5 lb ai/100 gal	C						
	Mean =		97.5	68.8	92.0	91.0	99.0	0.0

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Pest Type				W Weed			W Weed		W Weed	
Pest Code				SETFA			AMBTR		CHEAL	
Pest Scientific Name				Setaria faberi			Ambrosia trifida		Chenopodium album	
Pest Name				Giant foxtail			Giant ragweed		Common lambsquarters	
Crop Code	ZEAMX		ZEAMX	ZEAMX			ZEAMX		ZEAMX	
BBCH Scale	BCOR		BCOR	BCOR			BCOR		BCOR	
Crop Scientific Name	Zea mays		Zea mays	Zea mays			Zea mays		Zea mays	
Crop Name	Corn		Corn	Corn			Corn		Corn	
Rating Date	Jul-5-2013		Jul-5-2013	Jul-30-2013			Jul-30-2013		Jul-30-2013	
Rating Type	ROOT		PHYSTU	CONTRO			CONTRO		CONTRO	
Rating Unit	%		%	%			%		%	
Number of Subsamples	1		1	1			1		1	
Crop Stage Majority										
Pest Stage Majority				44 IN			96 IN		36 IN	
Pest Density, Unit				10 FT2			6 YD2		3 YD2	
Assessed By	MW		MW							
Days After First/Last Applic.	57 21		57 21	82 46			82 46		82 46	
Plant-Eval Interval	57 DP-1		57 DP-1	82 DP-1			82 DP-1		82 DP-1	
Days After Emergence	48 DE-1		48 DE-1	73 DE-1			73 DE-1		73 DE-1	
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	19	20	21	22	23
1	Untreated Check				101	0.0	0.0	0.0	0.0	0.0
					405	0.0	0.0	0.0	0.0	0.0
					702	0.0	0.0	0.0	0.0	0.0
					805	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0
2	Corvus (2.63 SC)	1.84 oz ai/a		A	102	0.0	0.0	90.0	90.0	99.0
	Atrazine	1.5 lb ai/a		A	404	0.0	0.0	93.0	97.0	99.0
					602	0.0	0.0	93.0	87.0	99.0
					804	0.0	0.0	90.0	93.0	99.0
					Mean =	0.0	0.0	91.5	91.8	99.0
3	Resolve (25 SG)	0.2502 oz ai/a		A	104	0.0	0.0	75.0	95.0	99.0
	Mesotrione (50 WG)	2.5 oz ai/a		A	502	0.0	0.0	50.0	60.0	99.0
	Atrazine	1.5 lb ai/a		A	704	0.0	0.0	60.0	99.0	99.0
					901	0.0	0.0	40.0	60.0	99.0
					Mean =	0.0	0.0	56.3	78.5	99.0
4	Tripleflex (4.25 SC)	1.6 lb ai/a		A	105	0.0	0.0	85.0	85.0	99.0
	Atrazine	1.5 lb ai/a		A	402	0.0	0.0	70.0	60.0	99.0
					605	0.0	0.0	70.0	50.0	99.0
					904	0.0	0.0	80.0	85.0	99.0
					Mean =	0.0	0.0	76.3	70.0	99.0
5	Lexar (3.7 SC)	2.78 lb ai/a		A	201	0.0	0.0	99.0	99.0	99.0
					505	0.0	0.0	40.0	70.0	99.0
					705	0.0	0.0	50.0	95.0	99.0
					905	0.0	0.0	85.0	85.0	99.0
					Mean =	0.0	0.0	68.5	87.3	99.0
6	Balance Flexx (2 SC)	1.5 oz ai/a		A	202	0.0	0.0	95.0	87.0	99.0
	Bicep II Magnum (5.5 SC)	2.75 lb ai/a		A	501	0.0	0.0	95.0	70.0	99.0
					802	0.0	0.0	97.0	99.0	99.0
					1005	0.0	0.0	95.0	90.0	99.0
					Mean =	0.0	0.0	95.5	86.5	99.0

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Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX	ZEAMX		ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR		BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn		Corn	Corn	Corn
Rating Date	Jul-5-2013	Jul-5-2013		Jul-30-2013	Jul-30-2013	Jul-30-2013
Rating Type	ROOT	PHYSTU		CONTRO	CONTRO	CONTRO
Rating Unit	%	%		%	%	%
Number of Subsamples	1	1		1	1	1
Crop Stage Majority						
Pest Stage Majority				44 IN	96 IN	36 IN
Pest Density, Unit				10 FT2	6 YD2	3 YD2
Assessed By	MW	MW				
Days After First/Last Applic.	57 21	57 21		82 46	82 46	82 46
Plant-Eval Interval	57 DP-1	57 DP-1		82 DP-1	82 DP-1	82 DP-1
Days After Emergence	48 DE-1	48 DE-1		73 DE-1	73 DE-1	73 DE-1

Trt No.	Treatment	Rate	Appl	Code	Plot	19	20	21	22	23
7	Capreno (3.45 SL)	1.3 oz ai/a	B		204	0.0	0.0	95.0	93.0	99.0
	Atrazine	1 lb ai/a	B		401	0.0	0.0	93.0	90.0	99.0
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		601	0.0	0.0	93.0	93.0	99.0
	AMS - Liquid	8.5 lb ai/100 gal	B		902	0.0	0.0	95.0	93.0	99.0
	Mean =					0.0	0.0	94.0	92.3	99.0
8	Capreno (3.45 SL)	1.3 oz ai/a	B		205	0.0	0.0	90.0	99.0	99.0
	Clarity (4 SL)	0.5 lb ae/a	B		305	0.0	0.0	87.0	97.0	99.0
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		604	0.0	0.0	93.0	95.0	99.0
	AMS - Liquid	8.5 lb ai/100 gal	B		1004	0.0	0.0	93.0	97.0	99.0
	Mean =					0.0	0.0	90.8	97.0	99.0
9	Halex GT (4.39 SC)	31.6 oz ai/a	B		301	0.0	0.0	95.0	95.0	99.0
	Atrazine	1 lb ai/a	B		304	0.0	0.0	97.0	97.0	99.0
	NIS	0.25 % v/v	B		701	0.0	0.0	97.0	93.0	99.0
	AMS - Liquid	8.5 lb ai/100 gal	B		1001	0.0	0.0	97.0	93.0	99.0
	Mean =					0.0	0.0	96.5	94.5	99.0
10	Tripleflex (4.25 SC)	0.8 lb ai/a	B		302	0.0	0.0	99.0	97.0	99.0
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		504	0.0	0.0	97.0	95.0	99.0
	AMS - Liquid	8.5 lb ai/100 gal	B		801	0.0	0.0	98.0	95.0	99.0
					1002	0.0	0.0	97.0	90.0	99.0
	Mean =					0.0	0.0	97.8	94.3	99.0
11	Balance Flexx (2 SC)	1 oz ai/a	A		103	0.0	0.0	99.0	97.0	99.0
	Atrazine	1.5 lb ai/a	A		403	0.0	0.0	97.0	90.0	99.0
	Tripleflex (4.25 SC)	0.8 lb ai/a	B		606	0.0	0.0	90.0	90.0	99.0
	Liberty 280 (2.34 SL)	0.402 lb ai/a	B		1006	0.0	0.0	93.0	93.0	99.0
	AMS - Liquid	8.5 lb ai/100 gal	B							
	Mean =					0.0	0.0	94.8	92.5	99.0
12	Corvus (2.63 SC)	1.15 oz ai/a	A		106	0.0	0.0	93.0	95.0	99.0
	Atrazine	1 lb ai/a	A		306	0.0	0.0	93.0	97.0	99.0
	Status (56 SG)	2.8 oz ai/a	C		706	0.0	0.0	95.0	97.0	99.0
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C		903	0.0	0.0	95.0	97.0	99.0
	AMS - Liquid	8.5 lb ai/100 gal	C							
	Mean =					0.0	0.0	94.0	96.5	99.0

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Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX	ZEAMX		ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR		BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays		Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn		Corn	Corn	Corn
Rating Date	Jul-5-2013	Jul-5-2013		Jul-30-2013	Jul-30-2013	Jul-30-2013
Rating Type	ROOT	PHYSTU		CONTRO	CONTRO	CONTRO
Rating Unit	%	%		%	%	%
Number of Subsamples	1	1		1	1	1
Crop Stage Majority						
Pest Stage Majority				44 IN	96 IN	36 IN
Pest Density, Unit				10 FT2	6 YD2	3 YD2
Assessed By	MW	MW				
Days After First/Last Applic.	57 21	57 21		82 46	82 46	82 46
Plant-Eval Interval	57 DP-1	57 DP-1		82 DP-1	82 DP-1	82 DP-1
Days After Emergence	48 DE-1	48 DE-1		73 DE-1	73 DE-1	73 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	19	20	21	22
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A 203	0.0	0.0	95.0	97.0
Laudis (3.5 SL)	0.875 oz ai/a	C 506	0.0	0.0	50.0	95.0
Clarity (4 SL)	0.25 lb ae/a	C 603	0.0	0.0	80.0	99.0
MSO	1 % v/v	C 906	0.0	10.0	85.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	C				
	Mean =		0.0	2.5	77.5	96.5
14 Balance Flexx (2 SC)	1 oz ai/a	A 206	10.0	0.0	87.0	95.0
Atrazine	1.5 lb ai/a	A 406	0.0	0.0	87.0	99.0
Clarity (4 SL)	0.25 lb ae/a	C 803	10.0	0.0	97.0	99.0
Liberty 280 (2.34 SL)	0.4 lb ai/a	C 806	0.0	0.0	95.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	C				
	Mean =		5.0	0.0	91.5	98.0
15 Resolve (25 SG)	0.276 oz ai/a	A 303	0.0	0.0	97.0	95.0
Harmony SG (50 SG)	0.06 oz ai/a	A 503	0.0	0.0	95.0	87.0
Isoxadifen (50 WG)	0.138 oz ai/a	A 703	0.0	7.0	97.0	85.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C 1003	0.0	0.0	95.0	95.0
AMS - Liquid	8.5 lb ai/100 gal	C				
	Mean =		0.0	1.8	96.0	90.5

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Corvus, Balance Flexx, Capreno, Laudis, Liberty / Field Corn

Trial ID: 13S-THP-CTC-10 Protocol ID: 13S-THP-CTC-10
 Location: Throckmorton Study Director:
 Project ID: HP13USABLT Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 ABUTH, Abutilon theophrasti, = US
 CHEAL, Chenopodium album, = US
 AMARE, Amaranthus retroflexus, = US
 SETSS, Setaria sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYGEN = phytotoxicity - general / injury
 PHYSTU = phytotoxicity - stunting

Rating Unit

% = percent

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

25 DP-1 = 1 ZEAMD May-9-2013
 34 DP-1 = 1 ZEAMD May-9-2013
 70 DP-1 = 1 ZEAMD May-9-2013
 57 DP-1 = 1 ZEAMD May-9-2013
 82 DP-1 = 1 ZEAMD May-9-2013

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Corvus, Balance Flexx, Capreno, Laudis, Liberty / Field Corn

Trial ID: 13S-THP-CTC-10 Protocol ID: 13S-THP-CTC-10
 Location: Throckmorton Study Director:
 Project ID: HP13USABL Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	ABUTH	CHEAL	AMARE			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Abutilon theophrasti	Chenopodium album	Amaranthus retrofractus			
Pest Name	Giant foxtail	Giant ragweed	velvetleaf	Common lambsquarters	Redroot pigweed			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013	Jun-3-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V3	V3	V3	V3	V3	V3		
Pest Stage Majority	4 IN	5 IN	2 IN	2.5 IN	2 IN			
Pest Density, Unit	15 FT2	5 YD2	2 FT2	7 FT2	4 FT2			
Assessed By	MW	MW	MW	MW	MW	MW		
Days After First/Last Applic.	25 25	25 25	25 25	25 25	25 25	25 25		
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1	25 DP-1		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0.0 b	0.0 c	0.0 c	0.0 b	0.0 c	0.0 a
2 Corvus (2.63 SC)	1.84 oz ai/a	A	91.3 a	85.0 a	99.0 a	99.0 a	99.0 a	0.0 a
Atrazine	1.5 lb ai/a	A						
3 Resolve (25 SG)	0.2502 oz ai/a	A	76.3 a	83.8 a	99.0 a	98.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a	A						
Atrazine	1.5 lb ai/a	A						
4 Tripleflex (4.25 SC)	1.6 lb ai/a	A	86.3 a	76.3 a	89.3 ab	91.8 a	99.0 a	0.0 a
Atrazine	1.5 lb ai/a	A						
5 Lexar (3.7 SC)	2.78 lb ai/a	A	81.3 a	85.0 a	89.3 ab	92.0 a	99.0 a	0.0 a
6 Balance Flexx (2 SC)	1.5 oz ai/a	A	92.3 a	80.0 a	96.8 a	99.0 a	99.0 a	0.0 a
Bicep II Magnum (5.5 SC)	2.75 lb ai/a	A						
7 Capreno (3.45 SL)	1.3 oz ai/a	B	15.0 b	17.5 bc	10.0 c	7.5 b	74.3 ab	0.0 a
Atrazine	1 lb ai/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
8 Capreno (3.45 SL)	1.3 oz ai/a	B	27.5 b	0.0 c	0.0 c	0.0 b	0.0 c	0.0 a
Clarity (4 SL)	0.5 lb ae/a	B						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
9 Halex GT (4.39 SC)	31.6 oz ai/a	B	20.0 b	17.5 bc	39.8 abc	12.5 b	49.5 abc	0.0 a
Atrazine	1 lb ai/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
10 Tripleflex (4.25 SC)	0.8 lb ai/a	B	32.5 b	37.5 abc	27.3 bc	24.8 b	32.3 bc	0.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
AMS - Liquid	8.5 lb ai/100 gal	B						
11 Balance Flexx (2 SC)	1 oz ai/a	A	68.8 a	63.8 ab	87.0 ab	99.0 a	99.0 a	0.0 a
Atrazine	1.5 lb ai/a	A						
Tripleflex (4.25 SC)	0.8 lb ai/a	B						
Liberty 280 (2.34 SL)	0.402 lb ai/a	B						
AMS - Liquid	8.5 lb ai/100 gal	B						

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.

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Pest Type		W Weed	W Weed	W Weed		W Weed				
Pest Code		AMBTR	SETSS	CHEAL		AMBTR				
Pest Scientific Name		Ambrosia trifi>	Setaria sp.	Chenopodium al>		Ambrosia trifi>				
Pest Name		Giant ragweed	Foxtail millet	Common lambsqu>		Giant ragweed				
Crop Code	ZEAMX				ZEAMX					
BBCH Scale	BCOR				BCOR					
Crop Scientific Name	Zea mays				Zea mays					
Crop Name	Corn				Corn					
Rating Date	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jul-18-2013	Jul-18-2013				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority	V5				V6					
Pest Stage Majority										
Pest Density, Unit										
Assessed By	Jl	Jl	Jl	Jl	PRATAB	PRATAB				
Days After First/Last Applic.	34 8	34 8	34 8	34 8	70 34	70 34				
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	70 DP-1	70 DP-1				
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	61 DE-1	61 DE-1				
Trt No.	Treatment Name	Rate	Unit	Appl Code	7	8	9	10	11	12
1	Untreated Check				0.0 b	0.0 c	0.0 e	0.0 c	0.0 b	0.0 e
2	Corvus (2.63 SC) Atrazine	1.84 oz ai/a 1.5 lb ai/a	A A		0.0 b	92.5 a	81.3 ab	99.8 a	0.0 b	71.3 abc
3	Resolve (25 SG) Mesotrione (50 WG) Atrazine	0.2502 oz ai/a 2.5 oz ai/a 1.5 lb ai/a	A A A		0.0 b	78.8 ab	36.3 cd	99.5 a	0.0 b	61.3 a-d
4	Tripleflex (4.25 SC) Atrazine	1.6 lb ai/a 1.5 lb ai/a	A A		0.0 b	77.5 ab	75.0 ab	96.0 a	5.0 ab	36.3 d
5	Lexar (3.7 SC)	2.78 lb ai/a	A		0.0 b	78.8 ab	76.3 ab	92.0 a	0.0 b	57.5 bcd
6	Balance Flexx (2 SC) Bicep II Magnum (5.5 SC)	1.5 oz ai/a 2.75 lb ai/a	A A		0.0 b	73.8 ab	87.5 a	93.3 a	1.3 ab	60.0 bcd
7	Capreno (3.45 SL) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid	1.3 oz ai/a 1 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal	B B B B		0.0 b	91.3 a	98.8 a	99.8 a	1.3 ab	88.8 ab
8	Capreno (3.45 SL) Clarity (4 SL) Roundup PowerMax 4.5 SL AMS - Liquid	1.3 oz ai/a 0.5 lb ae/a 0.77 lb ae/a 8.5 lb ai/100 gal	B B B B		1.3 b	90.0 a	93.8 a	97.3 a	6.3 ab	94.0 a
9	Halex GT (4.39 SC) Atrazine NIS AMS - Liquid	31.6 oz ai/a 1 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal	B B B B		0.0 b	93.8 a	100.0 a	99.8 a	3.8 ab	88.8 ab
10	Tripleflex (4.25 SC) Roundup PowerMax 4.5 SL AMS - Liquid	0.8 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal	B B B		1.3 b	87.5 a	97.5 a	99.5 a	3.8 ab	85.0 ab
11	Balance Flexx (2 SC) Atrazine Tripleflex (4.25 SC) Liberty 280 (2.34 SL) AMS - Liquid	1 oz ai/a 1.5 lb ai/a 0.8 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	A A B B B		6.3 a	95.0 a	92.5 a	98.5 a	2.5 ab	83.8 abc

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		AMBTR	SETSS	CHEAL	AMBTR
Pest Scientific Name		Ambrosia trifi>	Setaria sp.	Chenopodium al>	Ambrosia trifi>
Pest Name		Giant ragweed	Foxtail millet	Common lambsqu>	Giant ragweed
Crop Code	ZEAMX				ZEAMX
BBCH Scale	BCOR				BCOR
Crop Scientific Name	Zea mays				Zea mays
Crop Name	Corn				Corn
Rating Date	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jul-18-2013
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V5				V6
Pest Stage Majority					
Pest Density, Unit					
Assessed By	Jl	Jl	Jl	Jl	PRATAB
Days After First/Last Applic.	34 8	34 8	34 8	34 8	70 34
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	70 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1	61 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	7	8	9
12 Corvus (2.63 SC)	1.15 oz ai/a	A	0.0 b	56.3 ab	50.0 bc
Atrazine	1 lb ai/a	A			
Status (56 SG)	2.8 oz ai/a	C			
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C			
AMS - Liquid	8.5 lb ai/100 gal	C			
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A	0.0 b	16.3 c	17.5 de
Laudis (3.5 SL)	0.875 oz ai/a	C			
Clarity (4 SL)	0.25 lb ae/a	C			
MSO	1 % v/v	C			
AMS - Liquid	8.5 lb ai/100 gal	C			
14 Balance Flexx (2 SC)	1 oz ai/a	A	0.0 b	68.8 ab	73.8 ab
Atrazine	1.5 lb ai/a	A			
Clarity (4 SL)	0.25 lb ae/a	C			
Liberty 280 (2.34 SL)	0.4 lb ai/a	C			
AMS - Liquid	8.5 lb ai/100 gal	C			
15 Resolve (25 SG)	0.276 oz ai/a	A	0.0 b	47.5 b	38.8 cd
Harmony SG (50 SG)	0.06 oz ai/a	A			
Isoxadifen (50 WG)	0.138 oz ai/a	A			
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C			
AMS - Liquid	8.5 lb ai/100 gal	C			
LSD (P=.05)			1.59	23.03	22.17
Standard Deviation			1.11	16.11	15.51
CV			190.14	23.07	22.84
Bartlett's X2			0.0	35.47	25.721
P(Bartlett's X2)			.	0.001*	0.012*
Replicate F			1.242	1.598	0.796
Replicate Prob(F)			0.3066	0.2041	0.5031
Treatment F			8.613	12.723	16.826
Treatment Prob(F)			0.0001	0.0001	0.0001
					21.56
					15.09
					17.18
					150.769
					0.001*
					0.507
					4.81
					3.37
					109.16
					9.264
					0.507
					19.93
					13.95
					20.92
					35.995
					0.001*
					3.853
					0.0160
					12.652
					0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	SETFA	SETFA	AMBTR	CHEAL				
Pest Scientific Name	Chenopodium al>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>				
Pest Name	Common lambsqu>	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>				
Crop Code						ZEAMX	ZEAMX		
BBCH Scale						BCOR	BCOR		
Crop Scientific Name						Zea mays	Zea mays		
Crop Name						Corn	Corn		
Rating Date	Jul-18-2013	Jul-18-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	ROOT		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority									
Pest Stage Majority			40 IN	60 IN	36 IN				
Pest Density, Unit			15 FT2	6 YD2	1 YD2				
Assessed By	PRATAB	PRATAB	MW	MW	MW	MW	MW		
Days After First/Last Applic.	70 34	70 34	57 21	57 21	57 21	57 21	57 21		
Plant-Eval Interval	70 DP-1	70 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	61 DE-1	61 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	13	14	15	16	17	18	19
1 Untreated Check	0.0 c		0.0 c	0.0 e	0.0 d	0.0 b	0.0 b	0.0 a	0.0 b
2 Corvus (2.63 SC) Atrazine	1.84 oz ai/a 1.5 lb ai/a	A A	100.0 a	75.0 abc	86.8 ab	87.0 a	99.0 a	0.0 a	0.0 b
3 Resolve (25 SG) Mesotrione (50 WG) Atrazine	0.2502 oz ai/a 2.5 oz ai/a 1.5 lb ai/a	A A A	100.0 a	45.0 d	53.8 c	71.3 a	96.8 a	0.0 a	0.0 b
4 Tripleflex (4.25 SC) Atrazine	1.6 lb ai/a 1.5 lb ai/a	A A	80.0 ab	47.5 d	68.8 bc	75.5 a	89.3 a	0.0 a	0.0 b
5 Lexar (3.7 SC)	2.78 lb ai/a	A	57.5 b	41.3 d	68.8 bc	75.0 a	94.3 a	0.0 a	0.0 b
6 Balance Flexx (2 SC) Bicep II Magnum (5.5 SC)	1.5 oz ai/a 2.75 lb ai/a	A A	95.0 a	73.8 abc	86.3 ab	82.5 a	72.0 a	0.0 a	0.0 b
7 Capreno (3.45 SL) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid	1.3 oz ai/a 1 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal	B B B B	100.0 a	93.8 ab	92.3 ab	93.8 a	99.0 a	0.0 a	0.0 b
8 Capreno (3.45 SL) Clarity (4 SL) Roundup PowerMax 4.5 SL AMS - Liquid	1.3 oz ai/a 0.5 lb ae/a 0.77 lb ae/a 8.5 lb ai/100 gal	B B B B	100.0 a	91.3 ab	91.8 ab	96.0 a	99.0 a	0.0 a	0.0 b
9 Halex GT (4.39 SC) Atrazine NIS AMS - Liquid	31.6 oz ai/a 1 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal	B B B B	100.0 a	99.0 a	96.5 a	94.5 a	99.0 a	0.0 a	0.0 b
10 Tripleflex (4.25 SC) Roundup PowerMax 4.5 SL AMS - Liquid	0.8 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal	B B B	100.0 a	97.8 a	95.0 a	94.5 a	99.0 a	0.0 a	0.0 b
11 Balance Flexx (2 SC) Atrazine Tripleflex (4.25 SC) Liberty 280 (2.34 SL) AMS - Liquid	1 oz ai/a 1.5 lb ai/a 0.8 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	A A B B B	100.0 a	88.8 ab	94.0 a	93.3 a	99.0 a	0.0 a	0.0 b

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	W Weed CHEAL	W Weed SETFA	W Weed SETFA	W Weed AMBTR	W Weed CHEAL				
Pest Type	Chenopodium al>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Chenopodium al>				
Pest Code	Common lambsqu>	Giant foxtail	Giant foxtail	Giant ragweed	Common lambsqu>				
Pest Scientific Name						ZEAMX BCOR	ZEAMX BCOR		
Pest Name						Zea mays Corn	Zea mays Corn		
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jul-18-2013	Jul-18-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013	Jul-5-2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	ROOT		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority									
Pest Stage Majority			40 IN	60 IN	36 IN				
Pest Density, Unit			15 FT2	6 YD2	1 YD2				
Assessed By	PRATAB	PRATAB	MW	MW	MW	MW	MW		
Days After First/Last Applic.	70 34	70 34	57 21	57 21	57 21	57 21	57 21		
Plant-Eval Interval	70 DP-1	70 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1	57 DP-1		
Days After Emergence	61 DE-1	61 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1	48 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	13	14	15	16	17	18	19
12 Corvus (2.63 SC)	1.15 oz ai/a	A	97.5 a	73.8 abc	96.0 a	96.0 a	99.0 a	0.0 a	0.0 b
Atrazine	1 lb ai/a	A							
Status (56 SG)	2.8 oz ai/a	C							
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A	73.8 ab	51.3 cd	53.3 c	88.3 a	91.8 a	0.0 a	0.0 b
Laudis (3.5 SL)	0.875 oz ai/a	C							
Clarity (4 SL)	0.25 lb ae/a	C							
MSO	1 % v/v	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
14 Balance Flexx (2 SC)	1 oz ai/a	A	98.8 a	92.5 ab	96.0 a	98.0 a	99.0 a	0.0 a	5.0 a
Atrazine	1.5 lb ai/a	A							
Clarity (4 SL)	0.25 lb ae/a	C							
Liberty 280 (2.34 SL)	0.4 lb ai/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
15 Resolve (25 SG)	0.276 oz ai/a	A	97.5 a	68.8 bc	92.0 ab	91.0 a	99.0 a	0.0 a	0.0 b
Harmony SG (50 SG)	0.06 oz ai/a	A							
Isoxadifen (50 WG)	0.138 oz ai/a	A							
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
LSD (P=.05)			23.13	17.22	15.53	16.45	19.98	0.00	2.13
Standard Deviation			16.18	12.05	10.87	11.51	13.98	0.00	1.49
CV			18.67	17.39	13.92	13.97	15.71	0.0	447.21
Bartlett's X2			30.641	56.942	77.536	64.045	15.855	0.0	0.0
P(Bartlett's X2)			0.001*	0.001*	0.001*	0.001*	0.003*	.	.
Replicate F			0.272	4.064	2.843	0.849	1.458	0.000	1.000
Replicate Prob(F)			0.8456	0.0127	0.0491	0.4747	0.2397	1.0000	0.4023
Treatment F			11.202	21.140	23.527	17.887	13.449	0.000	3.000
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0030

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Trt No.	Treatment Name	Rate	Unit	Appl Code	20	21	22	23
1	Untreated Check				0.0 a	0.0 d	0.0 c	0.0 b
2	Corvus (2.63 SC) Atrazine	1.84 oz ai/a 1.5 lb ai/a		A A	0.0 a	91.5 a	91.8 a	99.0 a
3	Resolve (25 SG) Mesotrione (50 WG) Atrazine	0.2502 oz ai/a 2.5 oz ai/a 1.5 lb ai/a		A A A	0.0 a	56.3 c	78.5 ab	99.0 a
4	Tripleflex (4.25 SC) Atrazine	1.6 lb ai/a 1.5 lb ai/a		A A	0.0 a	76.3 ab	70.0 b	99.0 a
5	Lexar (3.7 SC)	2.78 lb ai/a		A	0.0 a	68.5 bc	87.3 a	99.0 a
6	Balance Flexx (2 SC) Bicep II Magnum (5.5 SC)	1.5 oz ai/a 2.75 lb ai/a		A A	0.0 a	95.5 a	86.5 a	99.0 a
7	Capreno (3.45 SL) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid	1.3 oz ai/a 1 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal		B B B B	0.0 a	94.0 a	92.3 a	99.0 a
8	Capreno (3.45 SL) Clarity (4 SL) Roundup PowerMax 4.5 SL AMS - Liquid	1.3 oz ai/a 0.5 lb ae/a 0.77 lb ae/a 8.5 lb ai/100 gal		B B B B	0.0 a	90.8 a	97.0 a	99.0 a
9	Halex GT (4.39 SC) Atrazine NIS AMS - Liquid	31.6 oz ai/a 1 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal		B B B B	0.0 a	96.5 a	94.5 a	99.0 a
10	Tripleflex (4.25 SC) Roundup PowerMax 4.5 SL AMS - Liquid	0.8 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal		B B B	0.0 a	97.8 a	94.3 a	99.0 a
11	Balance Flexx (2 SC) Atrazine Tripleflex (4.25 SC) Liberty 280 (2.34 SL) AMS - Liquid	1 oz ai/a 1.5 lb ai/a 0.8 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal		A A B B B	0.0 a	94.8 a	92.5 a	99.0 a

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifida	Chenopodium album
Pest Name		Giant foxtail	Giant ragweed	Common lambsquarters
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
Rating Date	Jul-5-2013	Jul-30-2013	Jul-30-2013	Jul-30-2013
Rating Type	PHYSTU	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Crop Stage Majority				
Pest Stage Majority		44 IN	96 IN	36 IN
Pest Density, Unit		10 FT2	6 YD2	3 YD2
Assessed By	MW			
Days After First/Last Applic.	57 21	82 46	82 46	82 46
Plant-Eval Interval	57 DP-1	82 DP-1	82 DP-1	82 DP-1
Days After Emergence	48 DE-1	73 DE-1	73 DE-1	73 DE-1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	20	21
			22	23
12 Corvus (2.63 SC)	1.15 oz ai/a	A	0.0 a	94.0 a
Atrazine	1 lb ai/a	A		96.5 a
Status (56 SG)	2.8 oz ai/a	C		99.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
13 Degree Xtra (4.04 CS)	3.23 lb ai/a	A	2.5 a	77.5 ab
Laudis (3.5 SL)	0.875 oz ai/a	C		96.5 a
Clarity (4 SL)	0.25 lb ae/a	C		99.0 a
MSO	1 % v/v	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
14 Balance Flexx (2 SC)	1 oz ai/a	A	0.0 a	91.5 a
Atrazine	1.5 lb ai/a	A		98.0 a
Clarity (4 SL)	0.25 lb ae/a	C		99.0 a
Liberty 280 (2.34 SL)	0.4 lb ai/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
15 Resolve (25 SG)	0.276 oz ai/a	A	1.8 a	96.0 a
Harmony SG (50 SG)	0.06 oz ai/a	A		90.5 a
Isoxadifen (50 WG)	0.138 oz ai/a	A		99.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C		
AMS - Liquid	8.5 lb ai/100 gal	C		
LSD (P=.05)			2.28	13.47
Standard Deviation			1.59	9.43
CV			562.37	11.59
Bartlett's X2			0.37	90.646
P(Bartlett's X2)			0.543	0.001*
Replicate F			0.672	2.893
Replicate Prob(F)			0.5742	0.0464
Treatment F			0.912	29.440
Treatment Prob(F)			0.5529	0.0001

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Corvus, Balance Flexx, Capreno, Laudis, Liberty / Field Corn

Trial ID: 13S-THP-CTC-10 Protocol ID: 13S-THP-CTC-10
 Location: Throckmorton Study Director:
 Project ID: HP13USABL Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 ABUTH, Abutilon theophrasti, = US
 CHEAL, Chenopodium album, = US
 AMARE, Amaranthus retroflexus, = US
 SETSS, Setaria sp., = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYGEN = phytotoxicity - general / injury
 PHYSTU = phytotoxicity - stunting

Rating Unit

% = percent

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

25 DP-1 = 1 ZEAMD May-9-2013
 34 DP-1 = 1 ZEAMD May-9-2013
 70 DP-1 = 1 ZEAMD May-9-2013
 57 DP-1 = 1 ZEAMD May-9-2013
 82 DP-1 = 1 ZEAMD May-9-2013