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Pre / Post Herbicide Programs for Corn

Trial ID: 13S-THP-CTC-12 Protocol ID: 13S-THP-CTC-12
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

General Trial Information

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

Initiation Date: Apr-1-2013

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

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: GH G10D98-3122 **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 Temperature, Unit: 69 F
Soil Moisture: DRY dry **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

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 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

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Soil Description

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

Application Description

	A	B
Application Date:	May-9-2013	Jun-14-2013
Time of Day:	AM	8 AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR
Application Placement:	SOIL	FOLIAR
Applied By:	MW	MW
Air Temperature, Unit:	73 F	55 F
% Relative Humidity:	49	89
Wind Velocity, Unit:	6.3 MPH	2.5 MPH
Wind Direction:	SW	NE
Dew Presence (Y/N):	Y yes	Y yes
Soil Temperature, Unit:	69 F	61 F
Soil Moisture:	DRY	SLIWET
% Cloud Cover:	95	5

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Height Minimum, Maximum:		1 12
Density, Unit:		20 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Height Minimum, Maximum:		9 15
Density, Unit:		3 YD2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height Minimum, Maximum:		1 12
Density, Unit:		13 YD2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Height Minimum, Maximum:		8 10
Density, Unit:		3 YD2

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Application Equipment

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

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Pre / Post Herbicide Programs for Corn

Trial ID: 13S-THP-CTC-12 Protocol ID: 13S-THP-CTC-12
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

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	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	405	702	805
2	Bicep II Magnum (5.5 SC)	5.5 LB/GAL		SC	2.06 lb ai/a	1.5 qt/a		ATPLAN	A		46.81 ml/mx		102	404	602	804
	Halex GT (4.39 SC)	4.39 LBA/GAL		SC	1.98 lb ai/a	3.6 pt/a		EAPOCR	B	V5 Corn	56.37 ml/mx					
	Atrazine	4 LBA/GAL		F	0.25 lb ai/a	0.5 pt/a		EAPOCR	B	V5 Corn	7.812 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		EAPOCR	B	V5 Corn	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
3	Lexar EZ (3.7 SC)	3.7 LB/GAL		SL	1.62 lb ai/a	1.75 qt/a		ATPLAN	A		54.72 ml/mx		104	502	704	901
	Halex GT (4.39 SC)	4.39 LBA/GAL		SC	1.98 lb ai/a	3.6 pt/a		EAPOCR	B	V5 Corn	56.37 ml/mx					
	Atrazine	4 LBA/GAL		F	0.25 lb ai/a	0.5 pt/a		EAPOCR	B	V5 Corn	7.812 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		EAPOCR	B	V5 Corn	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
4	Lexar EZ (3.7 SC)	3.7 LB/GAL		SL	2.08 lb ai/a	2.25 qt/a		ATPLAN	A		70.26 ml/mx		105	402	605	904
	Touchdown Total (4.17 SL)	4.17 LBAE/GAL		SL	0.78 lb ae/a	24 fl oz/a		EAPOCR	B	V5 Corn	23.38 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
5	Lumax EZ (3.95 SC)	3.95 LBA/GAL		SC	1.48 lb ai/a	1.5 qt/a		ATPLAN	A		46.83 ml/mx		201	505	705	905
	Halex GT (4.39 SC)	4.39 LBA/GAL		SC	1.98 lb ai/a	3.6 pt/a		EAPOCR	B	V5 Corn	56.37 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		EAPOCR	B	V5 Corn	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
6	Bicep II Magnum (5.5 SC)	5.5 LB/GAL		SC	2.4 lb ai/a	1.75 qt/a		ATPLAN	A		54.54 ml/mx		202	501	802	1005
	Callisto Xtra (3.7 SC)	3.7 LB/GAL		SC	0.694 lb ai/a	24 fl oz/a		EAPOCR	B	V5 Corn	23.44 ml/mx					
	Touchdown Total (4.17 SL)	4.17 LBAE/GAL		SL	0.78 lb ae/a	24 fl oz/a		EAPOCR	B	V5 Corn	23.38 ml/mx					
	NIS	100 %		SL	0.25 % v/v	0.25 % v/v		EAPOCR	B	V5 Corn	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
7	SureStart (4.25 SC)	4.25 LBA/GAL		SC	1.33 lb ai/a	2.5 pt/a		ATPLAN	A		39.11 ml/mx		204	401	601	902
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a	1.5 pt/a		EAPOCR	B	V5 Corn	23.43 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
8	Zidua (85 WG)	85 %		WG	2.13 oz ai/a	2.5 oz wt/a		ATPLAN	A		2.346 g/mx		205	305	604	1004
	Sharpen 2.85 SC	2.85 LBA/GAL		SC	1.07 oz ai/a	3 fl oz/a		ATPLAN	A		2.933 ml/mx					
	Atrazine	4 LBA/GAL		F	1.5 lb ai/a	1.5 qt/a		ATPLAN	A		46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		EAPOCR	B	V5 Corn	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
9	Zidua (85 WG)	85 %		WG	2.13 oz ai/a	2.5 oz wt/a		ATPLAN	A		2.346 g/mx		301	304	701	1001
	Sharpen 2.85 SC	2.85 LBA/GAL		SC	1.07 oz ai/a	3 fl oz/a		ATPLAN	A		2.933 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		EAPOCR	B	V5 Corn	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
10	Verdict (5.57 SC)	5.57 LBA/GAL		SC	10.4 oz ai/a	15 fl oz/a		ATPLAN	A		14.59 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	V5 Corn	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
11	Verdict (5.57 SC)	5.57 LBA/GAL		SC	10.4 oz ai/a	15 fl oz/a		ATPLAN	A		14.59 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					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		EAPOCR	B	V5 Corn	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
12	Zidua (85 WG)	85 %		WG	2.13 oz ai/a	2.5 oz wt/a		ATPLAN	A		2.346 g/mx		106	306	706	903
	Verdict (5.57 SC)	5.57 LBA/GAL		SC	6.96 oz ai/a	10 fl oz/a		ATPLAN	A		9.761 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		EAPOCR	B	V5 Corn	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					
13	Zidua (85 WG)	85 %		WG	2.13 oz ai/a	2.5 oz wt/a		ATPLAN	A		2.346 g/mx		203	506	603	906
	Verdict (5.57 SC)	5.57 LBA/GAL		SC	6.96 oz ai/a	10 fl oz/a		ATPLAN	A		9.761 ml/mx					
	Atrazine	4 LBA/GAL		F	1.5 lb ai/a	1.5 qt/a		ATPLAN	A		46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL		SL	0.77 lb ae/a	22 fl oz/a		EAPOCR	B	V5 Corn	21.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL		SL	7.2 lb ai/100 gal	8.5 qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx					

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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 Rate	Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
14	Guardsman Max (5 SC)	5	LBA/GAL	SC	40	oz ai/a	4	pt/a		ATPLAN	A		62.49 ml/mx	206	406	803	806
	Sharpen 2.85 SC	2.85	LBA/GAL	SC	1.07	oz ai/a	3	fl oz/a		ATPLAN	A		2.933 ml/mx				
	Roundup PowerMax 4.5 SL	4.5	LBAE/GAL	SL	0.77	lb ae/a	22	fl oz/a		EAPOCR	B	V5 Corn	21.39 ml/mx				
	AMS - Liquid	3.4	LB/GAL	SL	7.2	lb ai/100 gal	8.5	qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx				
15	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	303	503	703	1003
	Atrazine	4	LBA/GAL	F	1	lb ai/a	1	qt/a		ATPLAN	A		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	V5 Corn	21.39 ml/mx				
	AMS - Liquid	3.4	LB/GAL	SL	7.2	lb ai/100 gal	8.5	qt/100 gal		EAPOCR	B	V5 Corn	52.94 ml/mx				

Sort Order: Treatment

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Pre / Post Herbicide Programs for Corn

Trial ID: 13S-THP-CTC-12 Protocol ID: 13S-THP-CTC-12
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

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	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	May-29-2013	Jun-5-2013	Jun-5-2013	Jul-18-2013	Jul-18-2013	Jul-18-2013
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V2					
Pest Stage Majority				42 IN	72 IN	42 IN
Pest Density, Unit				22 FT2	4 YD2	7 YD2
Assessed By	BM/GT					
Days After First/Last Applic.	20 20	27 27	27 27	70 34	70 34	70 34
Plant-Eval Interval	20 DP-1	27 DP-1	27 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	11 DE-1	18 DE-1	18 DE-1	61 DE-1	61 DE-1	61 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
1 Untreated Check		101	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0
		805	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0
2 Bicep II Magnum (5.5 SC)	2.06 lb ai/a	A 102	0.0	98.0	95.0	99.0
Halex GT (4.39 SC)	1.98 lb ai/a	B 404	0.0	86.0	91.0	99.0
Atrazine	0.25 lb ai/a	B 602	0.0	99.0	95.0	99.0
NIS	0.25 % v/v	B 804	0.0	94.0	90.0	99.0
AMS - Liquid	7.2 lb ai/100 gal	B				
		Mean =	0.0	94.3	92.8	99.0
3 Lexar EZ (3.7 SC)	1.62 lb ai/a	A 104	2.0	100.0	95.0	99.0
Halex GT (4.39 SC)	1.98 lb ai/a	B 502	0.0	100.0	96.0	99.0
Atrazine	0.25 lb ai/a	B 704	0.0	94.0	93.0	99.0
NIS	0.25 % v/v	B 901	0.0	98.0	94.0	99.0
AMS - Liquid	7.2 lb ai/100 gal	B				
		Mean =	0.5	98.0	94.5	99.0
4 Lexar EZ (3.7 SC)	2.08 lb ai/a	A 105	0.0	100.0	92.0	99.0
Touchdown Total (4.17 SL)	0.78 lb ae/a	B 402	0.0	100.0	95.0	99.0
AMS - Liquid	7.2 lb ai/100 gal	B 605	0.0	99.0	95.0	99.0
		904	0.0	99.0	80.0	99.0
		Mean =	0.0	99.5	90.5	99.0
5 Lumax EZ (3.95 SC)	1.48 lb ai/a	A 201	0.0	100.0	80.0	99.0
Halex GT (4.39 SC)	1.98 lb ai/a	B 505	0.0	95.0	91.0	99.0
NIS	0.25 % v/v	B 705	0.0	99.0	95.0	99.0
AMS - Liquid	7.2 lb ai/100 gal	B 905	0.0	95.0	80.0	99.0
		Mean =	0.0	97.3	86.5	99.0

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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	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Rating Date	May-29-2013	Jun-5-2013	Jun-5-2013	Jul-18-2013	Jul-18-2013	Jul-18-2013			
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V2								
Pest Stage Majority				42 IN	72 IN	42 IN			
Pest Density, Unit				22 FT2	4 YD2	7 YD2			
Assessed By	BM/GT								
Days After First/Last Applic.	20 20	27 27	27 27	70 34	70 34	70 34			
Plant-Eval Interval	20 DP-1	27 DP-1	27 DP-1	70 DP-1	70 DP-1	70 DP-1			
Days After Emergence	11 DE-1	18 DE-1	18 DE-1	61 DE-1	61 DE-1	61 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	
6 Bicep II Magnum (5.5 SC)	2.4 lb ai/a	A 202	2.0	95.0	88.0	99.0	99.0	99.0	
Callisto Xtra (3.7 SC)	0.694 lb ai/a	B 501	0.0	97.0	92.0	99.0	99.0	99.0	
Touchdown Total (4.17 SL)	0.78 lb ae/a	B 802	0.0	98.0	96.0	99.0	99.0	99.0	
NIS	0.25 % v/v	B 1005	0.0	100.0	80.0	99.0	99.0	99.0	
AMS - Liquid	7.2 lb ai/100 gal	B							
Mean =			0.5	97.5	89.0	99.0	99.0	99.0	
7 SureStart (4.25 SC)	1.33 lb ai/a	A 204	0.0	100.0	95.0	99.0	97.0	99.0	
Durango DMA (4 SL)	0.75 lb ae/a	B 401	0.0	100.0	97.0	99.0	99.0	99.0	
AMS - Liquid	7.2 lb ai/100 gal	B 601	0.0	100.0	95.0	97.0	99.0	99.0	
		902	0.0	100.0	96.0	99.0	95.0	99.0	
Mean =			0.0	100.0	95.8	98.5	97.5	99.0	
8 Zidua (85 WG)	2.13 oz ai/a	A 205	0.0	100.0	97.0	99.0	97.0	99.0	
Sharpen 2.85 SC	1.07 oz ai/a	A 305	0.0	100.0	95.0	99.0	99.0	99.0	
Atrazine	1.5 lb ai/a	A 604	0.0	98.0	93.0	99.0	99.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1004	0.0	100.0	92.0	97.0	99.0	99.0	
AMS - Liquid	7.2 lb ai/100 gal	B							
Mean =			0.0	99.5	94.3	98.5	98.5	99.0	
9 Zidua (85 WG)	2.13 oz ai/a	A 301	0.0	70.0	85.0	95.0	97.0	99.0	
Sharpen 2.85 SC	1.07 oz ai/a	A 304	0.0	94.0	80.0	97.0	99.0	97.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 701	0.0	95.0	40.0	95.0	99.0	99.0	
AMS - Liquid	7.2 lb ai/100 gal	B 1001	0.0	95.0	88.0	95.0	95.0	99.0	
Mean =			0.0	88.5	73.3	95.5	97.5	98.5	
10 Verdict (5.57 SC)	10.4 oz ai/a	A 302	0.0	100.0	96.0	97.0	95.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 504	0.0	100.0	95.0	99.0	99.0	97.0	
AMS - Liquid	7.2 lb ai/100 gal	B 801	0.0	100.0	98.0	99.0	99.0	99.0	
		1002	0.0	99.0	95.0	97.0	99.0	99.0	
Mean =			0.0	99.8	96.0	98.0	98.0	98.5	
11 Verdict (5.57 SC)	10.4 oz ai/a	A 103	0.0	100.0	97.0	95.0	95.0	99.0	
Atrazine	1.5 lb ai/a	A 403	0.0	99.0	95.0	97.0	99.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 606	0.0	99.0	95.0	95.0	99.0	99.0	
AMS - Liquid	7.2 lb ai/100 gal	B 1006	0.0	100.0	85.0	95.0	95.0	99.0	
Mean =			0.0	99.5	93.0	95.5	97.0	99.0	
12 Zidua (85 WG)	2.13 oz ai/a	A 106	3.0	100.0	94.0	97.0	97.0	99.0	
Verdict (5.57 SC)	6.96 oz ai/a	A 306	0.0	95.0	95.0	99.0	99.0	99.0	
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 706	0.0	99.0	95.0	99.0	95.0	99.0	
AMS - Liquid	7.2 lb ai/100 gal	B 903	0.0	99.0	93.0	97.0	99.0	99.0	
Mean =			0.8	98.3	94.3	98.0	97.5	99.0	

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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	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCB Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	May-29-2013	Jun-5-2013	Jun-5-2013	Jul-18-2013	Jul-18-2013	Jul-18-2013
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V2					
Pest Stage Majority				42 IN	72 IN	42 IN
Pest Density, Unit				22 FT2	4 YD2	7 YD2
Assessed By	BM/GT					
Days After First/Last Applic.	20 20	27 27	27 27	70 34	70 34	70 34
Plant-Eval Interval	20 DP-1	27 DP-1	27 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	11 DE-1	18 DE-1	18 DE-1	61 DE-1	61 DE-1	61 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
						5
						6
13 Zidua (85 WG)	2.13 oz ai/a	A 203	0.0	100.0	88.0	99.0
Verdict (5.57 SC)	6.96 oz ai/a	A 506	0.0	99.0	94.0	97.0
Atrazine	1.5 lb ai/a	A 603	0.0	100.0	96.0	97.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 906	0.0	98.0	90.0	97.0
AMS - Liquid	7.2 lb ai/100 gal	B				99.0
		Mean =	0.0	99.3	92.0	97.5
						98.5
						99.0
14 Guardsman Max (5 SC)	40 oz ai/a	A 206	2.0	100.0	95.0	97.0
Sharpen 2.85 SC	1.07 oz ai/a	A 406	0.0	100.0	95.0	97.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 803	0.0	100.0	96.0	99.0
AMS - Liquid	7.2 lb ai/100 gal	B 806	0.0	99.0	98.0	97.0
		Mean =	0.5	99.8	96.0	97.5
						99.0
						99.0
15 Corvus (2.63 SC)	1.84 oz ai/a	A 303	0.0	100.0	93.0	99.0
Atrazine	1 lb ai/a	A 503	0.0	100.0	98.0	97.0
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 703	0.0	98.0	92.0	99.0
AMS - Liquid	7.2 lb ai/100 gal	B 1003	0.0	95.0	88.0	90.0
		Mean =	0.0	98.3	92.8	96.3
						98.0
						95.5

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Pest Type	W Weed						
Pest Code	ABUTH						
Pest Scientific Name	Abutilon theop>						
Pest Name	velvetleaf						
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-18-2013	Jul-18-2013	Jul-18-2013	Oct-9-2013	Oct-9-2013		
Rating Type	CONTRO	RM	PHYLMA	MOICON	YIELD		
Rating Unit	%	%	%	%	bu/ac		
Number of Subsamples	1	1	1	1	1		
Crop Stage Majority	50 IN						
Pest Stage Majority	3 YD2						
Pest Density, Unit	3 YD2						
Assessed By							
Days After First/Last Applic.	70 34	70 34	70 34	153 117	153 117		
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	153 DP-1	153 DP-1		
Days After Emergence	61 DE-1	61 DE-1	61 DE-1	144 DE-1	144 DE-1		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	7	8	9	10	11
1 Untreated Check		101	0.0	0.0	0.0	19.50	43.20
		405	0.0	0.0	0.0	21.60	137.10
		702	0.0	0.0	0.0	21.20	159.20
		805	0.0	0.0	0.0	20.70	87.70
		Mean =	0.0	0.0	0.0	20.75	106.80
2 Bicep II Magnum (5.5 SC)	2.06 lb ai/a	A 102	99.0	0.0	0.0	18.50	210.60
Halex GT (4.39 SC)	1.98 lb ai/a	B 404	99.0	0.0	0.0	20.00	235.80
Atrazine	0.25 lb ai/a	B 602	99.0	0.0	0.0	20.80	248.70
NIS	0.25 % v/v	B 804	99.0	0.0	0.0	20.10	238.10
AMS - Liquid	7.2 lb ai/100 gal	B					
		Mean =	99.0	0.0	0.0	19.85	233.30
3 Lexar EZ (3.7 SC)	1.62 lb ai/a	A 104	99.0	0.0	0.0	19.60	154.00
Halex GT (4.39 SC)	1.98 lb ai/a	B 502	99.0	0.0	0.0	20.70	265.20
Atrazine	0.25 lb ai/a	B 704	99.0	0.0	0.0	19.60	242.50
NIS	0.25 % v/v	B 901	99.0	0.0	0.0	20.10	272.40
AMS - Liquid	7.2 lb ai/100 gal	B					
		Mean =	99.0	0.0	0.0	20.00	233.53
4 Lexar EZ (3.7 SC)	2.08 lb ai/a	A 105	99.0	0.0	0.0	20.40	185.80
Touchdown Total (4.17 SL)	0.78 lb ae/a	B 402	99.0	0.0	0.0	21.60	258.70
AMS - Liquid	7.2 lb ai/100 gal	B 605	99.0	0.0	0.0	20.60	238.10
		904	99.0	0.0	0.0	20.40	235.10
		Mean =	99.0	0.0	0.0	20.75	229.43
5 Lumax EZ (3.95 SC)	1.48 lb ai/a	A 201	99.0	0.0	0.0	18.00	225.00
Halex GT (4.39 SC)	1.98 lb ai/a	B 505	99.0	0.0	0.0	21.10	231.30
NIS	0.25 % v/v	B 705	99.0	0.0	0.0	19.80	258.80
AMS - Liquid	7.2 lb ai/100 gal	B 905	99.0	0.0	0.0	19.90	273.90
		Mean =	99.0	0.0	0.0	19.70	247.25

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Pest Type	W Weed								
Pest Code	ABUTH								
Pest Scientific Name	Abutilon theop>								
Pest Name	velvetleaf								
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-18-2013	Jul-18-2013	Jul-18-2013	Oct-9-2013	Oct-9-2013				
Rating Type	CONTRO	RM	PHYLMA	MOICON	YIELD				
Rating Unit	%	%	%	%	bu/ac				
Number of Subsamples	1	1	1	1	1				
Crop Stage Majority									
Pest Stage Majority	50 IN								
Pest Density, Unit	3 YD2								
Assessed By									
Days After First/Last Applic.	70 34	70 34	70 34	153 117	153 117				
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	153 DP-1	153 DP-1				
Days After Emergence	61 DE-1	61 DE-1	61 DE-1	144 DE-1	144 DE-1				
Trt No.	Treatment	Rate	Appl						
		Rate Unit	Code Plot	7	8	9	10	11	
6	Bicep II Magnum (5.5 SC)	2.4 lb ai/a	A 202	99.0	20.0	10.0	19.20	257.10	
	Callisto Xtra (3.7 SC)	0.694 lb ai/a	B 501	99.0	7.0	5.0	19.80	266.10	
	Touchdown Total (4.17 SL)	0.78 lb ae/a	B 802	99.0	0.0	0.0	21.80	264.10	
	NIS	0.25 % v/v	B 1005	99.0	0.0	0.0	20.40	253.10	
	AMS - Liquid	7.2 lb ai/100 gal	B						
	Mean =			99.0	6.8	3.8	20.30	260.10	
7	SureStart (4.25 SC)	1.33 lb ai/a	A 204	99.0	0.0	0.0	20.40	208.40	
	Durango DMA (4 SL)	0.75 lb ae/a	B 401	99.0	15.0	10.0	21.10	233.00	
	AMS - Liquid	7.2 lb ai/100 gal	B 601	99.0	0.0	0.0	20.80	233.30	
			902	99.0	0.0	0.0	21.30	255.30	
	Mean =			99.0	3.8	2.5	20.90	232.50	
8	Zidua (85 WG)	2.13 oz ai/a	A 205	99.0	0.0	0.0	19.80	217.30	
	Sharpen 2.85 SC	1.07 oz ai/a	A 305	99.0	0.0	0.0	20.30	208.10	
	Atrazine	1.5 lb ai/a	A 604	99.0	0.0	0.0	19.70	241.60	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 1004	99.0	0.0	0.0	20.40	250.10	
	AMS - Liquid	7.2 lb ai/100 gal	B						
	Mean =			99.0	0.0	0.0	20.05	229.28	
9	Zidua (85 WG)	2.13 oz ai/a	A 301	99.0	0.0	0.0	20.50	251.10	
	Sharpen 2.85 SC	1.07 oz ai/a	A 304	97.0	0.0	0.0	20.60	204.40	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 701	99.0	0.0	0.0	20.50	259.20	
	AMS - Liquid	7.2 lb ai/100 gal	B 1001	99.0	0.0	0.0	20.40	245.30	
	Mean =			98.5	0.0	0.0	20.50	240.00	
10	Verdict (5.57 SC)	10.4 oz ai/a	A 302	99.0	0.0	0.0	20.90	254.90	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 504	99.0	0.0	0.0	20.10	238.10	
	AMS - Liquid	7.2 lb ai/100 gal	B 801	99.0	0.0	0.0	21.30	202.60	
			1002	99.0	0.0	0.0	20.60	242.30	
	Mean =			99.0	0.0	0.0	20.73	234.48	
11	Verdict (5.57 SC)	10.4 oz ai/a	A 103	95.0	0.0	0.0	18.40	146.80	
	Atrazine	1.5 lb ai/a	A 403	97.0	0.0	0.0	20.40	258.40	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 606	99.0	0.0	0.0	20.50	207.90	
	AMS - Liquid	7.2 lb ai/100 gal	B 1006	99.0	0.0	0.0	20.30	220.40	
	Mean =			97.5	0.0	0.0	19.90	208.38	
12	Zidua (85 WG)	2.13 oz ai/a	A 106	99.0	0.0	0.0	19.50	180.40	
	Verdict (5.57 SC)	6.96 oz ai/a	A 306	99.0	0.0	0.0	20.10	250.60	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 706	99.0	0.0	0.0	21.70	224.80	
	AMS - Liquid	7.2 lb ai/100 gal	B 903	99.0	0.0	0.0	19.80	271.90	
	Mean =			99.0	0.0	0.0	20.28	231.93	

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Pest Type	W Weed						
Pest Code	ABUTH						
Pest Scientific Name	Abutilon theop>						
Pest Name	velvetleaf						
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-18-2013	Jul-18-2013	Jul-18-2013	Oct-9-2013	Oct-9-2013		
Rating Type	CONTRO	RM	PHYLMA	MOICON	YIELD		
Rating Unit	%	%	%	%	bu/ac		
Number of Subsamples	1	1	1	1	1		
Crop Stage Majority	50 IN						
Pest Stage Majority	3 YD2						
Pest Density, Unit							
Assessed By							
Days After First/Last Applic.	70 34	70 34	70 34	153 117	153 117		
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	153 DP-1	153 DP-1		
Days After Emergence	61 DE-1	61 DE-1	61 DE-1	144 DE-1	144 DE-1		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	7	8	9	10	11
13 Zidua (85 WG)	2.13 oz ai/a	A 203	99.0	0.0	0.0	18.90	240.70
Verdict (5.57 SC)	6.96 oz ai/a	A 506	99.0	0.0	0.0	19.70	232.60
Atrazine	1.5 lb ai/a	A 603	97.0	0.0	0.0	21.10	249.10
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 906	99.0	0.0	0.0	20.30	233.20
AMS - Liquid	7.2 lb ai/100 gal	B					
	Mean =		98.5	0.0	0.0	20.00	238.90
14 Guardsman Max (5 SC)	40 oz ai/a	A 206	99.0	0.0	0.0	19.10	226.10
Sharpen 2.85 SC	1.07 oz ai/a	A 406	99.0	0.0	0.0	19.90	206.90
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 803	99.0	0.0	0.0	19.80	235.80
AMS - Liquid	7.2 lb ai/100 gal	B 806	99.0	0.0	0.0	19.80	257.00
	Mean =		99.0	0.0	0.0	19.65	231.45
15 Corvus (2.63 SC)	1.84 oz ai/a	A 303	99.0	0.0	0.0	19.50	228.70
Atrazine	1 lb ai/a	A 503	99.0	0.0	0.0	19.40	238.60
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B 703	99.0	0.0	0.0	20.30	223.30
AMS - Liquid	7.2 lb ai/100 gal	B 1003	99.0	0.0	0.0	20.20	242.10
	Mean =		99.0	0.0	0.0	19.85	233.18

Purdue University

Pre / Post Herbicide Programs for Corn

Trial ID: 13S-THP-CTC-12 Protocol ID: 13S-THP-CTC-12
Location: Throckmorton Study Director:
Project ID: Investigator: Dr. Bill Johnson
Sponsor Contact:

Pest Type

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

Pest Code

CHEAL, Chenopodium album, = US

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

ABUTH, Abutilon theophrasti, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn

CONTRO = control / burndown or knockdown

PHYLMA = phytotoxicity - leaf malformation

MOICON = moisture content

YIELD = yield

Rating Unit

% = percent

bu/ac = bushels per acre

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

20 DP-1 = 1 ZEAMD May-9-2013

27 DP-1 = 1 ZEAMD May-9-2013

70 DP-1 = 1 ZEAMD May-9-2013

153 DP-1 = 1 ZEAMD May-9-2013

Purdue University

Pre / Post Herbicide Programs for Corn

Trial ID: 13S-THP-CTC-12 Protocol ID: 13S-THP-CTC-12
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

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	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-29-2013	Jun-5-2013	Jun-5-2013	Jul-18-2013	Jul-18-2013	Jul-18-2013		
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2							
Pest Stage Majority				42 IN	72 IN	42 IN		
Pest Density, Unit				22 FT2	4 YD2	7 YD2		
Assessed By	BM/GT							
Days After First/Last Applic.	20 20	27 27	27 27	70 34	70 34	70 34		
Plant-Eval Interval	20 DP-1	27 DP-1	27 DP-1	70 DP-1	70 DP-1	70 DP-1		
Days After Emergence	11 DE-1	18 DE-1	18 DE-1	61 DE-1	61 DE-1	61 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check	0.0 a		0.0 a	0.0 c	0.0 c	0.0 c	0.0 b	0.0 b
2 Bicep II Magnum (5.5 SC)	2.06 lb ai/a	A	0.0 a	94.3 a	92.8 a	99.0 a	98.5 a	99.0 a
Halex GT (4.39 SC)	1.98 lb ai/a	B						
Atrazine	0.25 lb ai/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	7.2 lb ai/100 gal	B						
3 Lexar EZ (3.7 SC)	1.62 lb ai/a	A	0.5 a	98.0 a	94.5 a	99.0 a	98.5 a	99.0 a
Halex GT (4.39 SC)	1.98 lb ai/a	B						
Atrazine	0.25 lb ai/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	7.2 lb ai/100 gal	B						
4 Lexar EZ (3.7 SC)	2.08 lb ai/a	A	0.0 a	99.5 a	90.5 a	99.0 a	99.0 a	99.0 a
Touchdown Total (4.17 SL)	0.78 lb ae/a	B						
AMS - Liquid	7.2 lb ai/100 gal	B						
5 Lumax EZ (3.95 SC)	1.48 lb ai/a	A	0.0 a	97.3 a	86.5 a	99.0 a	99.0 a	99.0 a
Halex GT (4.39 SC)	1.98 lb ai/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	7.2 lb ai/100 gal	B						
6 Bicep II Magnum (5.5 SC)	2.4 lb ai/a	A	0.5 a	97.5 a	89.0 a	99.0 a	99.0 a	99.0 a
Callisto Xtra (3.7 SC)	0.694 lb ai/a	B						
Touchdown Total (4.17 SL)	0.78 lb ae/a	B						
NIS	0.25 % v/v	B						
AMS - Liquid	7.2 lb ai/100 gal	B						
7 SureStart (4.25 SC)	1.33 lb ai/a	A	0.0 a	100.0 a	95.8 a	98.5 a	97.5 a	99.0 a
Durango DMA (4 SL)	0.75 lb ae/a	B						
AMS - Liquid	7.2 lb ai/100 gal	B						
8 Zidua (85 WG)	2.13 oz ai/a	A	0.0 a	99.5 a	94.3 a	98.5 a	98.5 a	99.0 a
Sharpen 2.85 SC	1.07 oz ai/a	A						
Atrazine	1.5 lb ai/a	A						
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B						
AMS - Liquid	7.2 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.

Purdue University

		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Type		CHEAL	SETFA	SETFA	AMBTR	CHEAL
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	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	May-29-2013	Jun-5-2013	Jun-5-2013	Jul-18-2013	Jul-18-2013	Jul-18-2013
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V2					
Pest Stage Majority				42 IN	72 IN	42 IN
Pest Density, Unit				22 FT2	4 YD2	7 YD2
Assessed By	BM/GT					
Days After First/Last Applic.	20 20	27 27	27 27	70 34	70 34	70 34
Plant-Eval Interval	20 DP-1	27 DP-1	27 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	11 DE-1	18 DE-1	18 DE-1	61 DE-1	61 DE-1	61 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	4
						5
						6
9 Zidua (85 WG)	2.13 oz ai/a	A	0.0 a	88.5 b	73.3 b	95.5 b
Sharpen 2.85 SC	1.07 oz ai/a	A				97.5 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
AMS - Liquid	7.2 lb ai/100 gal	B				98.5 a
10 Verdict (5.57 SC)	10.4 oz ai/a	A	0.0 a	99.8 a	96.0 a	98.0 ab
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				98.0 a
AMS - Liquid	7.2 lb ai/100 gal	B				98.5 a
11 Verdict (5.57 SC)	10.4 oz ai/a	A	0.0 a	99.5 a	93.0 a	95.5 b
Atrazine	1.5 lb ai/a	A				97.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
AMS - Liquid	7.2 lb ai/100 gal	B				99.0 a
12 Zidua (85 WG)	2.13 oz ai/a	A	0.8 a	98.3 a	94.3 a	98.0 ab
Verdict (5.57 SC)	6.96 oz ai/a	A				97.5 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
AMS - Liquid	7.2 lb ai/100 gal	B				99.0 a
13 Zidua (85 WG)	2.13 oz ai/a	A	0.0 a	99.3 a	92.0 a	97.5 ab
Verdict (5.57 SC)	6.96 oz ai/a	A				98.5 a
Atrazine	1.5 lb ai/a	A				
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
AMS - Liquid	7.2 lb ai/100 gal	B				99.0 a
14 Guardsman Max (5 SC)	40 oz ai/a	A	0.5 a	99.8 a	96.0 a	97.5 ab
Sharpen 2.85 SC	1.07 oz ai/a	A				99.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
AMS - Liquid	7.2 lb ai/100 gal	B				98.0 a
15 Corvus (2.63 SC)	1.84 oz ai/a	A	0.0 a	98.3 a	92.8 a	96.3 ab
Atrazine	1 lb ai/a	A				98.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B				
AMS - Liquid	7.2 lb ai/100 gal	B				95.5 a
LSD (P=.05)			0.75	5.63	10.07	1.83
Standard Deviation			0.53	3.94	7.04	1.28
CV			351.87	4.31	8.25	1.4
Bartlett's X2			0.808	66.979	63.599	17.958
P(Bartlett's X2)			0.848	0.001*	0.001*	0.022*
Replicate F			4.846	0.196	0.867	2.392
Replicate Prob(F)			0.0055	0.8985	0.4656	0.0820
Treatment F			1.000	166.804	47.563	1559.401
Treatment Prob(F)			0.4708	0.0001	0.0001	0.0001

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Pest Type	W Weed				
Pest Code	ABUTH				
Pest Scientific Name	Abutilon theop>				
Pest Name	velvetleaf				
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-18-2013	Jul-18-2013	Jul-18-2013	Oct-9-2013	Oct-9-2013
Rating Type	CONTRO	RM	PHYLMA	MOICON	YIELD
Rating Unit	%	%	%	%	bu/ac
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	50 IN				
Pest Stage Majority	3 YD2				
Pest Density, Unit	Assessed By				
Days After First/Last Applic.	70 34	70 34	70 34	153 117	153 117
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	153 DP-1	153 DP-1
Days After Emergence	61 DE-1	61 DE-1	61 DE-1	144 DE-1	144 DE-1
Trt No.	Treatment Name	Rate	Unit	Appl Code	
7	1 Untreated Check	0.0	b		
8	2 Bicep II Magnum (5.5 SC)	2.06	lb ai/a	A	
8	Halex GT (4.39 SC)	1.98	lb ai/a	B	
8	Atrazine	0.25	lb ai/a	B	
8	NIS	0.25	% v/v	B	
8	AMS - Liquid	7.2	lb ai/100 gal	B	
9	3 Lexar EZ (3.7 SC)	1.62	lb ai/a	A	
9	Halex GT (4.39 SC)	1.98	lb ai/a	B	
9	Atrazine	0.25	lb ai/a	B	
9	NIS	0.25	% v/v	B	
9	AMS - Liquid	7.2	lb ai/100 gal	B	
10	4 Lexar EZ (3.7 SC)	2.08	lb ai/a	A	
10	Touchdown Total (4.17 SL)	0.78	lb ae/a	B	
10	AMS - Liquid	7.2	lb ai/100 gal	B	
11	5 Lumax EZ (3.95 SC)	1.48	lb ai/a	A	
11	Halex GT (4.39 SC)	1.98	lb ai/a	B	
11	NIS	0.25	% v/v	B	
11	AMS - Liquid	7.2	lb ai/100 gal	B	
11	6 Bicep II Magnum (5.5 SC)	2.4	lb ai/a	A	
11	Callisto Xtra (3.7 SC)	0.694	lb ai/a	B	
11	Touchdown Total (4.17 SL)	0.78	lb ae/a	B	
11	NIS	0.25	% v/v	B	
11	AMS - Liquid	7.2	lb ai/100 gal	B	
11	7 SureStart (4.25 SC)	1.33	lb ai/a	A	
11	Durango DMA (4 SL)	0.75	lb ae/a	B	
11	AMS - Liquid	7.2	lb ai/100 gal	B	
11	8 Zidua (85 WG)	2.13	oz ai/a	A	
11	Sharpen 2.85 SC	1.07	oz ai/a	A	
11	Atrazine	1.5	lb ai/a	A	
11	Roundup PowerMax 4.5 SL	0.77	lb ae/a	B	
11	AMS - Liquid	7.2	lb ai/100 gal	B	

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Pest Type	W Weed						
Pest Code	ABUTH						
Pest Scientific Name	Abutilon theop>						
Pest Name	velvetleaf						
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-18-2013	Jul-18-2013	Jul-18-2013	Oct-9-2013	Oct-9-2013		
Rating Type	CONTRO	RM	PHYLMA	MOICON	YIELD		
Rating Unit	%	%	%	%	bu/ac		
Number of Subsamples	1	1	1	1	1		
Crop Stage Majority							
Pest Stage Majority	50 IN						
Pest Density, Unit	3 YD2						
Assessed By							
Days After First/Last Applic.	70 34	70 34	70 34	153 117	153 117		
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	153 DP-1	153 DP-1		
Days After Emergence	61 DE-1	61 DE-1	61 DE-1	144 DE-1	144 DE-1		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	7	8	9	10	11
9 Zidua (85 WG)	2.13 oz ai/a	A	98.5 a	0.0 a	0.0 a	20.50 a	240.00 a
Sharpen 2.85 SC	1.07 oz ai/a	A					
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
10 Verdict (5.57 SC)	10.4 oz ai/a	A	99.0 a	0.0 a	0.0 a	20.73 a	234.48 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
11 Verdict (5.57 SC)	10.4 oz ai/a	A	97.5 a	0.0 a	0.0 a	19.90 a	208.38 a
Atrazine	1.5 lb ai/a	A					
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
12 Zidua (85 WG)	2.13 oz ai/a	A	99.0 a	0.0 a	0.0 a	20.28 a	231.93 a
Verdict (5.57 SC)	6.96 oz ai/a	A					
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
13 Zidua (85 WG)	2.13 oz ai/a	A	98.5 a	0.0 a	0.0 a	20.00 a	238.90 a
Verdict (5.57 SC)	6.96 oz ai/a	A					
Atrazine	1.5 lb ai/a	A					
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
14 Guardsman Max (5 SC)	40 oz ai/a	A	99.0 a	0.0 a	0.0 a	19.65 a	231.45 a
Sharpen 2.85 SC	1.07 oz ai/a	A					
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
15 Corvus (2.63 SC)	1.84 oz ai/a	A	99.0 a	0.0 a	0.0 a	19.85 a	233.18 a
Atrazine	1 lb ai/a	A					
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B					
AMS - Liquid	7.2 lb ai/100 gal	B					
LSD (P=.05)			0.89	4.44	2.54	0.865	37.358
Standard Deviation			0.62	3.11	1.78	0.605	26.142
CV			0.67	444.14	426.28	2.99	11.57
Bartlett's X2			1.791	0.154	0.006	22.361	26.807
P(Bartlett's X2)			0.408	0.695	0.94	0.071	0.02*
Replicate F			0.631	1.018	1.189	10.505	5.861
Replicate Prob(F)			0.5990	0.3941	0.3256	0.0001	0.0019
Treatment F			6725.607	1.545	1.604	1.921	7.048
Treatment Prob(F)			0.0001	0.1370	0.1182	0.0519	0.0001

Purdue University

Pre / Post Herbicide Programs for Corn

Trial ID: 13S-THP-CTC-12 Protocol ID: 13S-THP-CTC-12
 Location: Throckmorton Study Director:
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type

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

Pest Code

CHEAL, Chenopodium album, = US

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

ABUTH, Abutilon theophrasti, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn

CONTRO = control / burndown or knockdown

PHYLMA = phytotoxicity - leaf malformation

MOICON = moisture content

YIELD = yield

Rating Unit

% = percent

bu/ac = bushels per acre

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

20 DP-1 = 1 ZEAMD May-9-2013

27 DP-1 = 1 ZEAMD May-9-2013

70 DP-1 = 1 ZEAMD May-9-2013

153 DP-1 = 1 ZEAMD May-9-2013