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Pre/Post herbicide programs for corn.

Trial ID: 10S-THP-CTC-52 Protocol ID: 10S-THP-CTC-52
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer & Syngenta

General Trial Information

Study Director: White/Marquardt **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-17-2010

Trial Location

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

Personnel

Study Director: White/Marquardt **Title:** Research Associate
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** mdwhite@purdue.edu
Phone No.: 765-494-0891

Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wj@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
State/Prov.: IN
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States
Phone No.: 765-538-3422
Fax No.: 765-538-3423

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: Pioneer 33W84 **Description:** HXX, LL, RR2
BBCH Scale: BCOR **Planting Date:** 4-19-2010
Rate, Unit: 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 60 F
Soil Moisture: DRY dry **Emergence Date:** 5-2-2010

Pest Description

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

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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

Soil Description
Description Name: TPAC -Field 4A % OM: 3.1 Texture: SIL silt loam pH: 6 Soil Name: Toronto-Millbrook CEC: 11.1

Application Description		
	A	B
Application Date:	4-20-2010	5-25-2010
Time of Day:		7:30-8 AM
Application Method:	SPRAY	SPRAY
Application Timing:	A-ATPLAN	MP
Application Placement:	FOLIAR	FOLIAR
Applied By:	RH	RT
Air Temperature, Unit:	55 F	72 F
% Relative Humidity:	57	79
Wind Velocity, Unit:	2 MPH	3.2 MPH
Wind Direction:	SE	NE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	60 F	70 F
Soil Moisture:	DRY	MOIST
% Cloud Cover:	80	70

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR

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Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		45 100
Height, Unit:		3.5 IN
Height Minimum, Maximum:		1 6
Density, Unit:		20 YD2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		45 100
Height, Unit:		3 IN
Height Minimum, Maximum:		1 6
Density, Unit:		450 YD2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		45 100
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		10 YD2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		45 100
Height, Unit:		1 IN
Density, Unit:		5 YD2

Application Equipment		
	A	B
Appl. Equipment:	CO2 BKPK	CO2 BKPK
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 110 02	XR 110 02
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	H2O
Water Hardness (ppm CaCO3):	150	150
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1.8 liters	1.8 liters
Propellant:	CO2	CO2
Tank Mix (Y/N):	N no	N no

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 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer & Syngenta

Pest Type	W Weed SETFA	W Weed AMBTR	W Weed ABUTH	W Weed CHEAL	W Weed IPOHE	W Weed POLPT		
Pest Code	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium al>	Ipomoea heder>	Polygonum punc>		
Pest Scientific Name	Giant foxtail	Giant ragweed	Velvetleaf	Common lambsqu>	lvleaf mornin>	Dotted smartwe>		
Pest Name								
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Crop Variety								
Description								
Rating Date	5-24-2010	5-24-2010	5-24-2010	5-24-2010	5-24-2010	5-24-2010		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority								
Pest Stage Majority	1-4"	2-6"	0.5-2"	0.5-1"	.5"	0.5-1.5"		
Pest Density, Unit	250 YD2	10 YD2	20 YD2	20 YD2	5 YD2	80 YD2		
Assessed By	MW	MW	MW	MW	MW	MW		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0.0 d	0.0 c	0.0 c	0.0 b	0.0 b	0.0 b
2 Corvus (2.63 SC) Laudis (3.5 SL) Roundup PowerMax 4.5 SL MSO AMS - Liquid	0.0616 lb ai/a 0.082 lb ai/a 0.387 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	A B B B B	96.3 a	45.0 b	99.0 a	99.0 a	99.0 a	99.0 a
3 Balance Flexx (2 SC) Capreno (3.45 SL) Roundup PowerMax 4.5 SL COC AMS - Liquid	0.0616 lb ai/a 0.082 lb ai/a 0.387 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	A B B B B	88.0 b	81.0 ab	99.0 a	99.0 a	84.3 a	99.0 a
4 Corvus (2.63 SC) Ignite 280 (2.34 SL) Laudis (3.5 SL) AMS - Liquid	0.0616 lb ai/a 0.402 lb ai/a 0.0547 lb ai/a 8.5 lb ai/100 gal B	A B B B	94.5 a	63.8 ab	99.0 a	99.0 a	72.0 a	99.0 a
5 Balance Flexx (2 SC) Atrazine Ignite 280 (2.34 SL) Laudis (3.5 SL) AMS - Liquid	0.047 lb ai/a 1 lb ai/a 0.402 lb ai/a 0.0547 lb ai/a 8.5 lb ai/100 gal B	A B B B B	85.0 b	57.5 ab	99.0 a	99.0 a	67.0 a	99.0 a
6 Balance Flexx (2 SC) Atrazine Roundup PowerMax 4.5 SL COC AMS - Liquid	0.047 lb ai/a 1 lb ai/a 0.77 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	A B B B B	71.3 c	62.5 ab	99.0 a	99.0 a	29.8 b	99.0 a
7 Lumax (3.95 SC) Touchdown Total (4.17 SL) AMS - Liquid	1.98 lb ai/a 0.78 lb ae/a 8.5 lb ai/100 gal B	A B B	99.0 a	81.3 ab	99.0 a	99.0 a	99.0 a	99.0 a
8 Lexar (3.7 SC) Touchdown Total (4.17 SL) AMS - Liquid	2.08 lb ai/a 0.78 lb ae/a 8.5 lb ai/100 gal B	A B B	99.0 a	80.0 ab	99.0 a	99.0 a	99.0 a	99.0 a

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	W Weed SETFA Setaria faberi Giant foxtail	W Weed AMBTR Ambrosia trifi> Giant ragweed	W Weed ABUTH Abutilon theop> Velvetleaf	W Weed CHEAL Chenopodium ai> Common lambsqu>	W Weed IPOHE Ipomoea hедера> Ivyleaf momin>	W Weed POLPT Polygonum punc> Dotted smartwe>
Pest Type						
Pest Code						
Pest Scientific Name						
Pest Name						
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Crop Variety						
Description						
Rating Date	5-24-2010	5-24-2010	5-24-2010	5-24-2010	5-24-2010	5-24-2010
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority						
Pest Stage Majority	1-4"	2-6"	0.5-2"	0.5-1"	.5"	0.5-1.5"
Pest Density, Unit	250 YD2	10 YD2	20 YD2	20 YD2	5 YD2	80 YD2
Assessed By	MW	MW	MW	MW	MW	MW
Trt No.						
Treatment Name						
Rate						
Unit						
Appl Code						
	1	2	3	4	5	6
9 Bicep II Magnum (5.5 SC)	1.79 lb ai/a					
Touchdown Total (4.17 SL)	0.78 lb ae/a					
AMS - Liquid	8.5 lb ai/100 gal					
	99.0 a	56.3 ab	15.0 bc	99.0 a	94.3 a	99.0 a
10 Bicep II Magnum (5.5 SC)	1.79 lb ai/a					
Halex GT (4.39 SC)	1.98 lb ai/a					
NIS	0.25 % v/v					
AMS - Liquid	8.5 lb ai/100 gal					
	99.0 a	68.8 ab	64.5 a	99.0 a	99.0 a	99.0 a
11 Bicep II Magnum (5.5 SC)	1.79 lb ai/a					
Callisto Xtra (3.7 SC)	0.58 lb ai/a					
Touchdown Total (4.17 SL)	0.78 lb ae/a					
AMS - Liquid	8.5 lb ai/100 gal					
	98.0 a	67.5 ab	44.8 ab	99.0 a	99.0 a	99.0 a
12 Bicep II Magnum (5.5 SC)	1.79 lb ai/a					
Callisto Xtra (3.7 SC)	0.694 lb ai/a					
Touchdown Total (4.17 SL)	0.78 lb ae/a					
AMS - Liquid	8.5 lb ai/100 gal					
	99.0 a	10.0 c	20.0 bc	99.0 a	99.0 a	99.0 a
13 Integrity (5.57 SC)	0.566 lb ai/a					
Touchdown Total (4.17 SL)	0.78 lb ae/a					
AMS - Liquid	8.5 lb ai/100 gal					
	98.0 a	87.3 a	99.0 a	99.0 a	89.3 a	99.0 a
14 Harness Xtra 5.6 (5.6 SC)	2.1 lb ai/a					
Roundup PowerMax 4.5 SL	0.78 lb ae/a					
AMS - Liquid	8.5 lb ai/100 gal					
	97.0 a	81.3 ab	77.0 a	99.0 a	89.3 a	99.0 a
15 SureStart (4.25 SC)	0.93 lb ai/a					
Touchdown Total (4.17 SL)	0.78 lb ae/a					
AMS - Liquid	8.5 lb ai/100 gal					
	99.0 a	71.3 ab	51.3 ab	99.0 a	86.8 a	99.0 a
LSD (P=.05)	6.33	21.43	32.75	0.00	31.01	0.00
Standard Deviation	4.43	14.99	22.92	0.00	21.70	0.00
CV	5.03	24.63	32.29	0.0	26.98	0.0
Bartlett's X2	16.344	9.39	2.371	0.0	7.755	0.0
P(Bartlett's X2)	0.022*	0.743	0.796	.	0.355	.
Replicate F	4.714	5.155	0.571	0.000	0.959	0.000
Replicate Prob(F)	0.0063	0.0040	0.6371	1.0000	0.4210	1.0000
Treatment F	133.137	11.564	9.906	0.000	7.133	0.000
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000	0.0001	1.0000

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.

Column 1: Weed or volunteer crop; US; control / burndown or knockdown; percent; 1-4"; per square yard; MW Column 2: Weed or volunteer crop; US; control / burndown or knockdown; percent; 2-6"; per square yard; MW Column 3: Weed or volunteer crop; US; control / burndown or knockdown; percent; 0.5-2"; per square yard; MW

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	IPHOE	ABUTH	AMBTR	SETFA			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ipomoea heder>	Abutilon theop>	Ambrosia trifi>	Setaria faberi			
Pest Name	Giant foxtail	Giant ragweed	lvyleaf momin>	Velvetleaf	Giant ragweed	Giant foxtail			
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		
Crop Variety									
Description									
Rating Date	6-3-2010	6-3-2010	6-3-2010	6-3-2010	6-17-2010	6-17-2010	6-29-2010		
Rating Type	FLASH	STUNT	PHYBLE		CONTRO	CONTRO	PHYGEN		
Rating Unit					%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority									
Pest Stage Majority	9"	14"	5"	3"	2-48"	4-24"			
Pest Density, Unit	180 YD2	10 YD2	3 YD2	4 YD2	12.5YD2	20 YD2			
Assessed By	MW	MW	MW	MW	CB	CB	WGJ		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	7	8	9	10	11	12	13
9 Bicep II Magnum (5.5 SC)	1.79 lb ai/a	A	0.0 a	0.0 a	0.8 a		62.0 a	99.0 a	0.0 a
Touchdown Total (4.17 SL)	0.78 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
10 Bicep II Magnum (5.5 SC)	1.79 lb ai/a	A	4.3 a	2.5 a	0.8 a		89.0 a	99.8 a	0.0 a
Halex GT (4.39 SC)	1.98 lb ai/a	B							
NIS	0.25 % v/v	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
11 Bicep II Magnum (5.5 SC)	1.79 lb ai/a	A	1.8 a	1.3 a	0.0 a		94.0 a	98.5 a	0.0 a
Callisto Xtra (3.7 SC)	0.58 lb ai/a	B							
Touchdown Total (4.17 SL)	0.78 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
12 Bicep II Magnum (5.5 SC)	1.79 lb ai/a	A	0.0 a	0.0 a	0.0 a		83.0 a	99.3 a	0.0 a
Callisto Xtra (3.7 SC)	0.694 lb ai/a	B							
Touchdown Total (4.17 SL)	0.78 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
13 Integrity (5.57 SC)	0.566 lb ai/a	A	3.0 a	5.0 a	0.0 a		86.3 a	86.0 abc	2.5 a
Touchdown Total (4.17 SL)	0.78 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
14 Harness Xtra 5.6 (5.6 SC)	2.1 lb ai/a	A	2.0 a	0.0 a	0.0 a		70.8 a	81.0 bc	0.0 a
Roundup PowerMax 4.5 SL	0.78 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
15 SureStart (4.25 SC)	0.93 lb ai/a	A	0.8 a	2.5 a	0.0 a		62.0 a	95.5 ab	0.0 a
Touchdown Total (4.17 SL)	0.78 lb ae/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
LSD (P=.05)			3.30	4.24	0.79		21.25	9.97	2.23
Standard Deviation			2.31	2.97	0.55		14.87	6.98	1.56
CV			137.17	261.88	554.2		19.96	8.07	468.66
Bartlett's X2			4.256	6.045	0.0		22.614	59.238	2.039
P(Bartlett's X2)			0.935	0.418	.		0.047*	0.001*	0.361
Replicate F			0.645	2.291	0.651		3.842	6.552	1.366
Replicate Prob(F)			0.5905	0.0921	0.5867		0.0162	0.0010	0.2663
Treatment F			1.617	1.025	0.907		9.702	51.930	0.902
Treatment Prob(F)			0.1142	0.4484	0.5582		0.0001	0.0001	0.5626

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Pest Type	W Weed SETFA	W Weed AMBTR	W Weed SETFA	W Weed AMBTR	W Weed ABUTH	W Weed SETFA	W Weed AMBTR			
Pest Code	Setaria faberi Giant foxtail	Ambrosia trifi> Giant ragweed	Setaria faberi Giant foxtail	Ambrosia trifi> Giant ragweed	Abutilon theop> Velvetleaf	Setaria faberi Giant foxtail	Ambrosia trifi> Giant ragweed			
Pest Scientific Name										
Pest Name										
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Crop Variety										
Description										
Rating Date	6-29-2010	6-29-2010	7-19-2010	7-19-2010	7-19-2010	9-8-2010	9-8-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority										
Pest Stage Majority	3-4'	6-7'	36"	96"		36"	96"			
Pest Density, Unit	20 YD2	2.5 YD2	100 YD2	10 YD2		100 YD2	10 YD2			
Assessed By	WGJ	WGJ	MW	MW	MW	MW	MW			
Trt Treatment	Rate	Appl	14	15	16	17	18	19	20	
No. Name	Rate	Unit	Code							
1 Untreated Check				0.0 d	0.0 d	0.0 c	0.0 d	0.0 c	0.0 e	0.0 d
2 Corvus (2.63 SC) Laudis (3.5 SL) Roundup PowerMax 4.5 SL MSO AMS - Liquid	0.0616 lb ai/a 0.082 lb ai/a 0.387 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	ai/a ai/a ae/a v/v B	A B B B B	86.3 abc	95.8 a	93.8 ab	94.3 ab	99.0 a	95.0 ab	96.0 a
3 Balance Flexx (2 SC) Capreno (3.45 SL) Roundup PowerMax 4.5 SL COC AMS - Liquid	0.0616 lb ai/a 0.082 lb ai/a 0.387 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	ai/a ai/a ae/a v/v B	A B B B B	92.0 abc	93.3 a	96.0 ab	93.8 ab	99.0 a	96.0 ab	96.5 a
4 Corvus (2.63 SC) Ignite 280 (2.34 SL) Laudis (3.5 SL) AMS - Liquid	0.0616 lb ai/a 0.402 lb ai/a 0.0547 lb ai/a 8.5 lb ai/100 gal B	ai/a ai/a ai/a B	A B B B	83.8 abc	88.8 ab	90.0 ab	91.3 ab	99.0 a	91.3 cd	93.3 ab
5 Balance Flexx (2 SC) Atrazine Ignite 280 (2.34 SL) Laudis (3.5 SL) AMS - Liquid	0.047 lb ai/a 1 lb ai/a 0.402 lb ai/a 0.0547 lb ai/a 8.5 lb ai/100 gal B	ai/a ai/a ai/a ai/a B	A B B B B	84.5 abc	92.0 a	91.3 ab	91.0 ab	99.0 a	90.8 cd	95.8 a
6 Balance Flexx (2 SC) Atrazine Roundup PowerMax 4.5 SL COC AMS - Liquid	0.047 lb ai/a 1 lb ai/a 0.77 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	ai/a ai/a ae/a v/v B	A B B B B	80.8 bc	90.0 ab	90.0 ab	91.3 ab	99.0 a	87.5 d	93.3 ab
7 Lumax (3.95 SC) Touchdown Total (4.17 SL) AMS - Liquid	1.98 lb ai/a 0.78 lb ae/a 8.5 lb ai/100 gal B	ai/a ae/a B	A B B	98.5 a	78.0 abc	98.0 a	85.5 abc	99.0 a	97.0 ab	81.3 bc
8 Lexar (3.7 SC) Touchdown Total (4.17 SL) AMS - Liquid	2.08 lb ai/a 0.78 lb ae/a 8.5 lb ai/100 gal B	ai/a ae/a B	A B B	96.8 ab	84.5 abc	97.5 a	81.3 abc	99.0 a	97.5 ab	83.8 abc

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Crop Variety Description Rating Date Rating Type Rating Unit Number of Subsamples Crop Stage Majority Pest Stage Majority Pest Density, Unit Assessed By	ZEAMD BCOR Zea mays inden> Dent corn 9-27-2010 YIELD BU56LB 1	ZEAMD BCOR Zea mays inden> Dent corn 9-27-2010 MOICON % 1		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	21	22
1 Untreated Check			98.65 b	12.68 a
2 Corvus (2.63 SC) Laudis (3.5 SL) Roundup PowerMax 4.5 SL MSO AMS - Liquid	0.0616 lb ai/a 0.082 lb ai/a 0.387 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	A B B B B	192.80 a	12.15 a
3 Balance Flexx (2 SC) Capreno (3.45 SL) Roundup PowerMax 4.5 SL COC AMS - Liquid	0.0616 lb ai/a 0.082 lb ai/a 0.387 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	A B B B B	183.98 a	12.70 a
4 Corvus (2.63 SC) Ignite 280 (2.34 SL) Laudis (3.5 SL) AMS - Liquid	0.0616 lb ai/a 0.402 lb ai/a 0.0547 lb ai/a 8.5 lb ai/100 gal B	A B B B	167.28 a	12.73 a
5 Balance Flexx (2 SC) Atrazine Ignite 280 (2.34 SL) Laudis (3.5 SL) AMS - Liquid	0.047 lb ai/a 1 lb ai/a 0.402 lb ai/a 0.0547 lb ai/a 8.5 lb ai/100 gal B	A B B B B	190.15 a	12.10 a
6 Balance Flexx (2 SC) Atrazine Roundup PowerMax 4.5 SL COC AMS - Liquid	0.047 lb ai/a 1 lb ai/a 0.77 lb ae/a 1 % v/v 8.5 lb ai/100 gal B	A B B B B	180.30 a	12.55 a
7 Lumax (3.95 SC) Touchdown Total (4.17 SL) AMS - Liquid	1.98 lb ai/a 0.78 lb ae/a 8.5 lb ai/100 gal B	A B B	173.33 a	12.63 a
8 Lexar (3.7 SC) Touchdown Total (4.17 SL) AMS - Liquid	2.08 lb ai/a 0.78 lb ae/a 8.5 lb ai/100 gal B	A B B	194.48 a	12.95 a

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Column 4: Weed or volunteer crop; US; control / burndown or knockdown; percent; 0.5-1"; per square yard; MW
 Column 5: Weed or volunteer crop; US; control / burndown or knockdown; percent; .5"; per square yard; MW
 Column 6: Weed or volunteer crop; US; control / burndown or knockdown; percent; 0.5-1.5"; per square yard; MW
 Column 7: Weed or volunteer crop; US; US; FLASH; 9"; per square yard; MW
 Column 8: Weed or volunteer crop; US; US; STUNT; 14"; per square yard; MW
 Column 9: Weed or volunteer crop; US; US; phytotoxicity - bleaching; 5"; per square yard; MW
 Column 10: Weed or volunteer crop; US; 3"; per square yard; MW
 Column 11: Weed or volunteer crop; US; control / burndown or knockdown; percent; 2-48"; per square yard; CB
 Column 12: Weed or volunteer crop; US; control / burndown or knockdown; percent; 4-24"; per square yard; CB
 Column 13: US; phytotoxicity - general / injury; percent; WGJ
 Column 14: Weed or volunteer crop; US; control / burndown or knockdown; percent; 3-4"; per square yard; WGJ
 Column 15: Weed or volunteer crop; US; control / burndown or knockdown; percent; 6-7"; per square yard; WGJ
 Column 16: Weed or volunteer crop; US; control / burndown or knockdown; percent; 36"; per square yard; MW
 Column 17: Weed or volunteer crop; US; control / burndown or knockdown; percent; 96"; per square yard; MW
 Column 18: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
 Column 19: Weed or volunteer crop; US; control / burndown or knockdown; percent; 36"; per square yard; MW
 Column 20: Weed or volunteer crop; US; control / burndown or knockdown; percent; 96"; per square yard; MW
 Column 21: US; yield; bushel 56 lb
 Column 22: US; moisture content; percent