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Weed control with Realm Q in corn.

Trial ID: 10S-THP-CTC-63 Protocol ID: 10S-THP-CTC-63
Location: Throckmorton Study Director: White/Marquardt
Project ID: Investigator: Dr. Bill Johnson
Sponsor Contact: DuPont - Helen Flanigan

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: 3-18-2010

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:** 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
City: Lafayette **Fax No.:** 765-538-3423
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: 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:** SETFA Setaria faberi
Common Name: Giant foxtail

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

Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Pest 4 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 5 Type: W **Code:** THLSS Thlaspi sp.
Common Name: Pennycress

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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 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

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	5-19-2010
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	POSPOS
Applied By:	AR	MH
Air Temperature, Unit:	55 F	62 F
% Relative Humidity:	57	75
Wind Velocity, Unit:	2 MPH	5 MPH
Wind Direction:	SE	NE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	60 F	58 F
Soil Moisture:	DRY	WET
% Cloud Cover:	80	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3
Stage Minimum, Percent:		V2 15
Stage Maximum, Percent:		V3 85
Height, Unit:		4 IN
Height Minimum, Maximum:		3 5

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		45 100
Height, Unit:		3 IN
Height Minimum, Maximum:		1 6
Density, Unit:		37.5 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		45 100
Height, Unit:		3.5 IN
Height Minimum, Maximum:		1 6
Density, Unit:		5.5 YD2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		45 100
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1 2
Density, Unit:		2 YD2
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		45 100
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		3 YD2
Pest 5 Code, Type, Scale:	THLSS W	THLSS W
Stage Majority, Percent:		45 100
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1 2
Density, Unit:		3.5 YD2

Application Equipment

	A	B
Appl. Equipment:	CO2 Backpack	CO2 BKPK
Equipment Type:		SPRBAC
Operating Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	Flat Fan	FLAT FAN
Nozzle Size:	XR11002	XR 110 02
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	6	8
Boom Length, Unit:	7.5 FT	10 FT
Boom Height, Unit:	18 IN	24 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	MEIGS	MEIGS
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	C02
Tank Mix (Y/N):	N no	N no

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Trial ID: 10S-THP-CTC-63 Protocol ID: 10S-THP-CTC-63
Location: Throckmorton Study Director: White/Marquardt
Project ID: Investigator: Dr. Bill Johnson
Sponsor Contact: DuPont - Helen Flanigan

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2	3	4	5	6	7
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
	Pest Code				SETFA	AMBTR	CHEAL	ABUTH	SETFA	AMBTR	ABUTH
	Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Abutilon theop>
	Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>	Velvetleaf	Giant foxtail	Giant ragweed	Velvetleaf
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn	Corn	Corn	Corn
	Crop Variety										
	Description										
	Rating Date				5-26-2010	5-26-2010	5-26-2010	5-26-2010	6-4-2010	6-4-2010	6-4-2010
	Rating Type				PHYNLS	FLASH			CONTRO	CONTRO	CONTRO
	Rating Unit								%	%	%
	Number of Subsamples				1	1	1	1	1	1	1
	Crop Stage Majority				V4	V4	V4	V4	V6-23"	V6-23"	V6-23"
	Pest Stage Majority				1-7"	2-12"	1-2"		20"	24"	10"
	Pest Density, Unit				200 YD2	6 YD2	8 YD2	7 YD2	200 YD2	10 YD2	4 YD2
	Assessed By				MW	MW	MW	MW	MW	MW	MW
1	Untreated Check				2.8 a	0.0 a			0.0 c	0.0 b	0.0 b
2	Resolve (25 SG)	0.3	oz ai/a	B	2.0 a	0.8 a			83.8 b	86.0 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
3	Cinch ATZ (5.5 SC)	1.38	lb ai/a	A	5.8 a	0.0 a			95.5 a	90.0 a	99.0 a
	Resolve (25 SG)	0.3	oz ai/a	B							
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
4	Resolve (25 SG)	0.3	oz ai/a	B	3.3 a	0.8 a			91.3 a	83.8 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	Abundit (3 SL)	0.75	lb ae/a	B							
	AMS - Liquid	2	lb ai/a	B							
5	Resolve (25 SG)	0.3	oz ai/a	B	3.3 a	2.5 a			91.3 a	89.0 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	Ignite 280 (2.34 SL)	0.402	lb ai/a	B							
	AMS - Liquid	2	lb ai/a	B							
6	Resolve (25 SG)	0.3	oz ai/a	B	5.0 a	2.5 a			93.0 a	92.3 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	Atrazine	16	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							

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Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
	Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
	Pest Code				SETFA	AMBTR	CHEAL	ABUTH	SETFA	AMBTR	ABUTH
	Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Abutilon theop>
	Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>	Velvetleaf	Giant foxtail	Giant ragweed	Velvetleaf
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn	Corn	Corn	Corn
	Crop Variety										
	Description										
	Rating Date				5-26-2010	5-26-2010	5-26-2010	5-26-2010	6-4-2010	6-4-2010	6-4-2010
	Rating Type				PHYNLS	FLASH			CONTRO	CONTRO	CONTRO
	Rating Unit								%	%	%
	Number of Subsamples				1	1	1	1	1	1	1
	Crop Stage Majority				V4	V4	V4	V4	V6-23"	V6-23"	V6-23"
	Pest Stage Majority				1-7"	2-12"	1-2"		20"	24"	10"
	Pest Density, Unit				200 YD2	6 YD2	8 YD2	7 YD2	200 YD2	10 YD2	4 YD2
	Assessed By				MW	MW	MW	MW	MW	MW	MW
7	Resolve (25 SG)	0.25	oz ai/a	A	2.0 a	0.0 a			91.3 a	87.5 a	99.0 a
	Isoxaflutole (75 SG)	0.5	oz ai/a	A							
	Resolve (25 SG)	0.3	oz ai/a	B							
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
8	Steadfast (75 WG)	0.5625	oz ai/a	B	4.5 a	0.0 a			90.0 a	88.5 a	98.0 a
	Isoxadifen (50 WG)	0.125	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
9	Untreated Check				3.0 a	0.0 a			0.0 c	0.0 b	0.0 b
	LSD (P=.05)				3.19	2.40	.	.	4.64	9.31	1.00
	Standard Deviation				2.19	1.64	.	.	3.17	6.37	0.68
	CV				62.54	227.77	.	.	4.49	9.28	0.89
	Bartlett's X2				6.678	2.865	.	.	6.428	1.234	0.0
	P(Bartlett's X2)				0.572	0.413	.	.	0.377	0.942	.
	Replicate F				20.383	0.808			1.154	1.708	0.978
	Replicate Prob(F)				0.0001	0.5021			0.3488	0.1933	0.4203
	Treatment F				1.435	1.650			642.836	149.714	16401.230
	Treatment Prob(F)				0.2330	0.1629			0.0001	0.0001	0.0001

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; US; phytotoxicity - necrosis, leaf spot; V4; 1-7"; per square yard; MW
Column 2: Weed or volunteer crop; US; US; FLASH; V4; 2-12"; per square yard; MW
Column 3: Weed or volunteer crop; US; US; V4; 1-2"; per square yard; MW
Column 4: Weed or volunteer crop; US; US; V4; per square yard; MW
Column 5: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V6-23"; 20"; per square yard; MW
Column 6: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V6-23"; 24"; per square yard; MW
Column 7: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V6-23"; 10"; per square yard; MW
Column 8: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V6-23"; 8"; per square yard; MW
Column 9: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V6-23"; 8"; per square yard; MW
Column 10: US; FLASH; V6-23"; MW
Column 11: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V7; 30"; per square yard; MW
Column 12: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V7; 42"; per square yard; MW
Column 13: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V7; 14"; per square yard; MW
Column 14: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; V7; 24"; per square yard; MW
Column 15: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; R1-SILK; 48"; per square yard; MW
Column 16: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; R1-SILK; 96"; per square yard; MW

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Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	8	9	10	11	12	13	14
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code				CHEAL	AMARE		SETFA	AMBTR	AMARE	CHEAL
	Pest Scientific Name				Chenopodium al>	Amaranthus ret>		Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>
	Pest Name				Common lambsqu>	Redroot pigweed		Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn	Corn	Corn	Corn
	Crop Variety										
	Description										
	Rating Date				6-4-2010	6-4-2010	6-4-2010	6-17-2010	6-17-2010	6-17-2010	6-17-2010
	Rating Type				CONTRO	CONTRO	FLASH	CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit				%	%		%	%	%	%
	Number of Subsamples				1	1	1	1	1	1	1
	Crop Stage Majority				V6-23"	V6-23"	V6-23"	V7	V7	V7	V7
	Pest Stage Majority				8"	8"		30"	42"	14"	24"
	Pest Density, Unit				6 YD2	3 YD2		200 YD2	6 YD2	3 YD2	2 YD2
	Assessed By				MW	MW	MW	MW	MW	MW	MW
1	Untreated Check				0.0 b	0.0 b	0.0 a	0.0 d	0.0 b	0.0 b	0.0 b
2	Resolve (25 SG)	0.3	oz ai/a	B	96.8 a	95.5 a	3.3 a	68.8 c	82.3 a	96.8 a	98.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
3	Cinch ATZ (5.5 SC)	1.38	lb ai/a	A	99.0 a	99.0 a	2.0 a	95.0 a	88.8 a	99.0 a	99.0 a
	Resolve (25 SG)	0.3	oz ai/a	B							
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
4	Resolve (25 SG)	0.3	oz ai/a	B	99.0 a	99.0 a	3.0 a	86.3 ab	81.3 a	99.0 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	Abundit (3 SL)	0.75	lb ae/a	B							
	AMS - Liquid	2	lb ai/a	B							
5	Resolve (25 SG)	0.3	oz ai/a	B	98.7 a	99.0 a	1.3 a	85.8 ab	81.9 a	96.3 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	Ignite 280 (2.34 SL)	0.402	lb ai/a	B							
	AMS - Liquid	2	lb ai/a	B							
6	Resolve (25 SG)	0.3	oz ai/a	B	99.0 a	99.0 a	1.3 a	87.5 ab	92.3 a	99.0 a	99.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	Atrazine	16	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							

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Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13	14
	Pest Type				W Weed	W Weed		W Weed	W Weed	W Weed	W Weed
	Pest Code				CHEAL	AMARE		SETFA	AMBTR	AMARE	CHEAL
	Pest Scientific Name				Chenopodium al>	Amaranthus ret>		Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>
	Pest Name				Common lambsqu>	Redroot pigweed		Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>
	Crop Code				ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
	Crop Name				Corn	Corn	Corn	Corn	Corn	Corn	Corn
	Crop Variety										
	Description										
	Rating Date				6-4-2010	6-4-2010	6-4-2010	6-17-2010	6-17-2010	6-17-2010	6-17-2010
	Rating Type				CONTRO	CONTRO	FLASH	CONTRO	CONTRO	CONTRO	CONTRO
	Rating Unit				%	%		%	%	%	%
	Number of Subsamples				1	1	1	1	1	1	1
	Crop Stage Majority				V6-23"	V6-23"	V6-23"	V7	V7	V7	V7
	Pest Stage Majority				8"	8"		30"	42"	14"	24"
	Pest Density, Unit				6 YD2	3 YD2		200 YD2	6 YD2	3 YD2	2 YD2
	Assessed By				MW	MW	MW	MW	MW	MW	MW
7	Resolve (25 SG)	0.25	oz ai/a	A	99.0 a	99.0 a	1.3 a	86.3 ab	92.3 a	98.0 a	99.0 a
	Isoxaflutole (75 SG)	0.5	oz ai/a	A							
	Resolve (25 SG)	0.3	oz ai/a	B							
	Isoxadifen (50 WG)	0.15	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
8	Steadfast (75 WG)	0.5625	oz ai/a	B	99.0 a	99.0 a	2.5 a	81.3 b	87.3 a	94.8 a	99.0 a
	Isoxadifen (50 WG)	0.125	oz ai/a	B							
	Mesotrione (50 WG)	1.25	oz ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2	lb ai/a	B							
9	Untreated Check				0.0 b	0.0 b	0.0 a	0.0 d	0.0 b	0.0 b	0.0 b
	LSD (P=.05)				2.22	3.41	2.90	8.25	11.10	3.84	1.00
	Standard Deviation				1.52	2.33	1.99	5.64	7.59	2.62	0.68
	CV				1.98	3.05	123.49	8.59	11.27	3.46	0.89
	Bartlett's X2				0.0	0.0	0.139	10.452	8.845	2.236	0.0
	P(Bartlett's X2)				.	.	1.00	0.063	0.182	0.525	.
	Replicate F				1.232	1.000	1.768	1.504	1.652	0.511	0.978
	Replicate Prob(F)				0.3208	0.4098	0.1801	0.2399	0.2051	0.6784	0.4203
	Treatment F				3275.234	1387.000	1.407	180.293	102.399	1077.641	16401.230
	Treatment Prob(F)				0.0001	0.0001	0.2439	0.0001	0.0001	0.0001	0.0001

Purdue University

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	15	16
	Pest Type				W Weed	W Weed
	Pest Code				SETFA	AMBTR
	Pest Scientific Name				Setaria faberi	Ambrosia trifi>
	Pest Name				Giant foxtail	Giant ragweed
	Crop Code				ZEAMX	ZEAMX
	BBCH Scale				BCOR	BCOR
	Crop Scientific Name				Zea mays	Zea mays
	Crop Name				Corn	Corn
	Crop Variety					
	Description					
	Rating Date				7-12-2010	7-12-2010
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Crop Stage Majority				R1-SILK	R1-SILK
	Pest Stage Majority				48"	96"
	Pest Density, Unit				200 YD2	15 YD2
	Assessed By				MW	MW
1	Untreated Check				0.0 d	0.0 c
2	Resolve (25 SG)	0.3	oz ai/a	B	82.5 c	92.0 ab
	Isoxadifen (50 WG)	0.15	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	COC	1	% v/v	B		
	AMS - Liquid	2	lb ai/a	B		
3	Cinch ATZ (5.5 SC)	1.38	lb ai/a	A	96.0 a	96.0 a
	Resolve (25 SG)	0.3	oz ai/a	B		
	Isoxadifen (50 WG)	0.15	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	COC	1	% v/v	B		
	AMS - Liquid	2	lb ai/a	B		
4	Resolve (25 SG)	0.3	oz ai/a	B	88.8 bc	87.5 b
	Isoxadifen (50 WG)	0.15	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	Abundit (3 SL)	0.75	lb ae/a	B		
	AMS - Liquid	2	lb ai/a	B		
5	Resolve (25 SG)	0.3	oz ai/a	B	86.6 bc	94.7 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	Ignite 280 (2.34 SL)	0.402	lb ai/a	B		
	AMS - Liquid	2	lb ai/a	B		
6	Resolve (25 SG)	0.3	oz ai/a	B	92.5 ab	97.0 a
	Isoxadifen (50 WG)	0.15	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	Atrazine	16	oz ai/a	B		
	COC	1	% v/v	B		
	AMS - Liquid	2	lb ai/a	B		

Purdue University

Pest Type					W Weed	W Weed
Pest Code					SETFA	AMBTR
Pest Scientific Name					Setaria faberi	Ambrosia trifi>
Pest Name					Giant foxtail	Giant ragweed
Crop Code					ZEAMX	ZEAMX
BBCH Scale					BCOR	BCOR
Crop Scientific Name					Zea mays	Zea mays
Crop Name					Corn	Corn
Crop Variety						
Description						
Rating Date					7-12-2010	7-12-2010
Rating Type					CONTRO	CONTRO
Rating Unit					%	%
Number of Subsamples					1	1
Crop Stage Majority					R1-SILK	R1-SILK
Pest Stage Majority					48"	96"
Pest Density, Unit					200 YD2	15 YD2
Assessed By					MW	MW
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	15	16
7	Resolve (25 SG)	0.25	oz ai/a	A	92.5 ab	97.0 a
	Isoxaflutole (75 SG)	0.5	oz ai/a	A		
	Resolve (25 SG)	0.3	oz ai/a	B		
	Isoxadifen (50 WG)	0.15	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	COC	1	% v/v	B		
	AMS - Liquid	2	lb ai/a	B		
8	Steadfast (75 WG)	0.5625	oz ai/a	B	86.3 bc	92.5 ab
	Isoxadifen (50 WG)	0.125	oz ai/a	B		
	Mesotrione (50 WG)	1.25	oz ai/a	B		
	COC	1	% v/v	B		
	AMS - Liquid	2	lb ai/a	B		
9	Untreated Check				0.0 d	0.0 c
LSD (P=.05)					5.21	4.75
Standard Deviation					3.56	3.25
CV					5.12	4.45
Bartlett's X2					6.613	9.297
P(Bartlett's X2)					0.358	0.158
Replicate F					1.100	4.362
Replicate Prob(F)					0.3692	0.0143
Treatment F					494.634	652.253
Treatment Prob(F)					0.0001	0.0001