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Weed Control Programs with Instigate

Trial ID: 14S-THP-CTC-11 Protocol ID: 14S-THP-CTC-11
 Location: Throckmorton Study Director:
 Project ID: USA-14-009 Investigator: Dr. Bill Johnson
 Sponsor Contact: DuPont

General Trial Information

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

Discipline: H herbicide
Trial Status: E established

Trial Location

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

Personnel

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 **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 DKC 62-08
BBCH Scale: BCOR **Planting Date:** May-5-2014
Planting Method: SEEDED seeded **Rate, Unit:** 33000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: FINE fine
Soil Moisture: DRY dry **Emergence Date:** May-12-2014

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

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

Application Description			
	A	B	C
Application Date:	May-6-2014	Jun-6-2014	
Time of Day:	AM	AM	
Application Method:	SPRAY	SPRAY	
Application Timing:	ATPLAN	POSPOS	
Application Placement:	SOIL	FOLIAR	
Air Temperature, Unit:	75.1 F	72 F	
% Relative Humidity:	32.5	66	
Wind Velocity, Unit:	9.6 mph	4.5 mph	
Wind Direction:	SW	S	
Dew Presence (Y/N):	N no	Y yes	
Soil Temperature, Unit:	67.5 F	70 F	
Soil Moisture:	Dry	Moist	
% Cloud Cover:	10	0	

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		14

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		5 IN
Height Minimum, Maximum:		3 5
Density, Unit:		2 FT2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Height Minimum, Maximum:		1 2
Density, Unit:		3 YD2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Height Minimum, Maximum:		1 2
Density, Unit:		1 YD2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Height Minimum, Maximum:		1 2
Density, Unit:		1 YD2

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Application Equipment

	A	B	C
Appl. Equipment:	CO2 FORD	CO2 FORD	
Equipment Type:	SPTRMO	SPTRMO	
Operation Pressure, Unit:	25 PSI	25 PSI	
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	
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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Weed Control Programs with Instigate

Trial ID: 14S-THP-CTC-11 Protocol ID: 14S-THP-CTC-11
 Location: Throckmorton Study Director:
 Project ID: USA-14-009 Investigator: Dr. Bill Johnson
 Sponsor Contact: DuPont

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	Rep 2	Rep 3	Rep 4
1	Untreated Weed-Free Check											101	405	702	805
2	Resolve (25 SG)	25 %		WG	0.25 oz ai/a		1 oz/a	ATPLAN	A		0.9361 g/mx	102	403	602	803
	Mesotrione (50 WG)	50 %		WG	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.681 g/mx				
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL		SC	2.06 lb ai/a		3 pt/a	ATPLAN	A		46.81 ml/mx				
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
3	Resolve (25 SG)	25 %		WG	0.25 oz ai/a		1 oz/a	ATPLAN	A		0.9361 g/mx	103	502	703	901
	Mesotrione (50 WG)	50 %		WG	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.681 g/mx				
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL		SC	2.06 lb ai/a		3 pt/a	ATPLAN	A		46.81 ml/mx				
	Atrazine	4 LBA/GAL		F	1 lb ai/a		2 pt/a	POSPOS	B	28 DAP	31.25 ml/mx				
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
4	Resolve (25 SG)	25 %		WG	0.25 oz ai/a		1 oz/a	ATPLAN	A		0.9361 g/mx	105	402	605	903
	Mesotrione (50 WG)	50 %		WG	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.681 g/mx				
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL		SC	2.06 lb ai/a		3 pt/a	ATPLAN	A		46.81 ml/mx				
	Resolve (25 SG)	25 %		WG	0.3 oz ai/a		1.2 oz/a	POSPOS	B	28 DAP	1.123 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a		2.5 oz/a	POSPOS	B	28 DAP	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.15 oz ai/a		0.3 oz/a	POSPOS	B	28 DAP	0.2808 g/mx				
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
5	Resolve (25 SG)	25 %		WG	0.25 oz ai/a		1 oz/a	ATPLAN	A		0.9361 g/mx	201	505	705	905
	Mesotrione (50 WG)	50 %		WG	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.681 g/mx				
	Breakfree ATZ (5.25 SC)	5.25 LBA/GAL		SC	1.97 lb ai/a		3 pt/a	ATPLAN	A		46.9 ml/mx				
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
6	Resolve (25 SG)	25 %		WG	0.25 oz ai/a		1 oz/a	ATPLAN	A		0.9361 g/mx	202	501	802	1005
	Mesotrione (50 WG)	50 %		WG	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.681 g/mx				
	Breakfree ATZ (5.25 SC)	5.25 LBA/GAL		SC	1.97 lb ai/a		3 pt/a	ATPLAN	A		46.9 ml/mx				
	Atrazine	4 LBA/GAL		F	1 lb ai/a		2 pt/a	POSPOS	B	28 DAP	31.25 ml/mx				
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
7	Resolve (25 SG)	25 %		WG	0.25 oz ai/a		1 oz/a	ATPLAN	A		0.9361 g/mx	203	401	601	902
	Mesotrione (50 WG)	50 %		WG	2.5 oz ai/a		5 oz/a	ATPLAN	A		4.681 g/mx				
	Breakfree ATZ (5.25 SC)	5.25 LBA/GAL		SC	1.97 lb ai/a		3 pt/a	ATPLAN	A		46.9 ml/mx				
	Resolve (25 SG)	25 %		WG	0.3 oz ai/a		1.2 oz/a	POSPOS	B	28 DAP	1.123 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a		2.5 oz/a	POSPOS	B	28 DAP	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.15 oz ai/a		0.3 oz/a	POSPOS	B	28 DAP	0.2808 g/mx				
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
8	Lumax EZ (3.95 SC)	3.95 LBA/GAL		SC	2.96 lb ai/a		3 qt/a	ATPLAN	A		93.66 ml/mx	205	305	603	1003
	Abundit (3 SL)	3 LBAE/GAL		SL	0.75 lb ae/a		32 oz/a	POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
9	SureStart II (4.16 SC)	4.16 LBA/GAL		SC	1.04 lb ai/a		2 pt/a	ATPLAN	A		31.25 ml/mx	301	303	701	1001
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		1.5 pt/a	POSPOS	B	28 DAP	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
10	SureStart II (4.16 SC)	4.16 LBA/GAL		SC	1.3 lb ai/a		2.5 pt/a	ATPLAN	A		39.06 ml/mx	302	503	801	1002
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		1.5 pt/a	POSPOS	B	28 DAP	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 ml/mx				
11	SureStart II (4.16 SC)	4.16 LBA/GAL		SC	1.3 lb ai/a		2.5 pt/a	ATPLAN	A		39.06 ml/mx	104	304	604	804
	Atrazine	4 LBA/GAL		F	1 lb ai/a		1 qt/a	ATPLAN	A		31.25 ml/mx				
	Durango DMA (4 SL)	4 LBAE/GAL		SL	0.75 lb ae/a		1.5 pt/a	POSPOS	B	28 DAP	23.43 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a	POSPOS	B	28 DAP	73.52 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	Rep 2	Rep 3	Rep 4
12	Corvus	2.63	LBA/GAL	SC	1.84	oz ai/a	5.6	oz/a		ATPLAN	A		5.465 ml/mx	204	404	704	904
	Atrazine	4	LBA/GAL	F	1	lb ai/a	1	qt/a		ATPLAN	A		31.25 ml/mx				
	Abundit (3 SL)	3	LBAE/GAL	SL	0.75	lb ae/a	32	oz/a		POSPOS	B	28 DAP	31.25 ml/mx				
	AMS - Liquid	3.4	LB/GAL	SL	2	lb ai/a	2.35	qt/a		POSPOS	B	28 DAP	73.52 ml/mx				

Sort Order: Treatment

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Weed Control Programs with Instigate

Trial ID: 14S-THP-CTC-11 Protocol ID: 14S-THP-CTC-11
 Location: Throckmorton Study Director:
 Project ID: USA-14-009 Investigator: Dr. Bill Johnson
 Sponsor Contact: DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf			
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-21-2014	May-21-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V4	V4	V4	V4			
Pest Stage Majority	.25	1.5	1.5	3	.5	1.5			
Pest Density, Unit			1 FT2	7 YD2	4 FT2	1 YD2			
Days After First/Last Applic.	15 15	15 15	27 27	27 27	27 27	27 27			
Plant-Eval Interval	16 DP-1	16 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	9 DE-1	9 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	Plot	1	2	3	4	5	6
1 Untreated Weed-Free 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 Resolve (25 SG)	0.25 oz ai/a	A	102	99.0	60.0	95.0	93.0	99.0	99.0
Mesotrione (50 WG)	2.5 oz ai/a	A	403	99.0	85.0	99.0	95.0	99.0	99.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A	602	99.0	93.0	99.0	93.0	99.0	99.0
Abundit (3 SL)	0.75 lb ae/a	B	803	99.0	85.0	99.0	87.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B							
			Mean =	99.0	80.8	98.0	92.0	99.0	99.0
3 Resolve (25 SG)	0.25 oz ai/a	A	103	99.0	60.0	99.0	96.0	99.0	99.0
Mesotrione (50 WG)	2.5 oz ai/a	A	502	99.0	87.0	99.0	97.0	99.0	99.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A	703	99.0	87.0	99.0	93.0	99.0	99.0
Atrazine	1 lb ai/a	B	901	99.0	50.0	90.0	75.0	99.0	99.0
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
			Mean =	99.0	71.0	96.8	90.3	99.0	99.0
4 Resolve (25 SG)	0.25 oz ai/a	A	105	99.0	30.0	93.0	83.0	99.0	99.0
Mesotrione (50 WG)	2.5 oz ai/a	A	402	99.0	65.0	99.0	87.0	99.0	99.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A	605	99.0	85.0	99.0	90.0	99.0	99.0
Resolve (25 SG)	0.3 oz ai/a	B	903	99.0	40.0	99.0	80.0	99.0	99.0
Mesotrione (50 WG)	1.25 oz ai/a	B							
Isoxadifen (50 WG)	0.15 oz ai/a	B							
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
			Mean =	99.0	55.0	97.5	85.0	99.0	99.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf			
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-21-2014	May-21-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V4	V4	V4	V4			
Pest Stage Majority	.25	1.5	1.5	3	.5	1.5			
Pest Density, Unit			1 FT2	7 YD2	4 FT2	1 YD2			
Days After First/Last Applic.	15 15	15 15	27 27	27 27	27 27	27 27			
Plant-Eval Interval	16 DP-1	16 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	9 DE-1	9 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	Plot	1	2	3	4	5	6
5 Resolve (25 SG)	0.25 oz ai/a	A	201	99.0	83.0	99.0	94.0	99.0	99.0
Mesotrione (50 WG)	2.5 oz ai/a	A	505	99.0	75.0	99.0	90.0	99.0	99.0
Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A	705	99.0	60.0	99.0	85.0	99.0	99.0
Abundit (3 SL)	0.75 lb ae/a	B	905	99.0	50.0	99.0	85.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B							
			Mean =	99.0	67.0	99.0	88.5	99.0	99.0
6 Resolve (25 SG)	0.25 oz ai/a	A	202	99.0	85.0	99.0	95.0	99.0	99.0
Mesotrione (50 WG)	2.5 oz ai/a	A	501	99.0	75.0	99.0	95.0	99.0	99.0
Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A	802	99.0	83.0	97.0	85.0	99.0	99.0
Atrazine	1 lb ai/a	B	1005	99.0	95.0	99.0	97.0	99.0	99.0
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
			Mean =	99.0	84.5	98.5	93.0	99.0	99.0
7 Resolve (25 SG)	0.25 oz ai/a	A	203	99.0	97.0	99.0	97.0	99.0	99.0
Mesotrione (50 WG)	2.5 oz ai/a	A	401	99.0	70.0	99.0	90.0	99.0	99.0
Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A	601	99.0	93.0	95.0	94.0	99.0	99.0
Resolve (25 SG)	0.3 oz ai/a	B	902	99.0	87.0	95.0	93.0	99.0	99.0
Mesotrione (50 WG)	1.25 oz ai/a	B							
Isoxadifen (50 WG)	0.15 oz ai/a	B							
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
			Mean =	99.0	86.8	97.0	93.5	99.0	99.0
8 Lumax EZ (3.95 SC)	2.96 lb ai/a	A	205	99.0	85.0	99.0	90.0	99.0	99.0
Abundit (3 SL)	0.75 lb ae/a	B	305	99.0	70.0	99.0	85.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B	603	99.0	90.0	99.0	93.0	99.0	99.0
			1003	99.0	83.0	95.0	90.0	99.0	99.0
			Mean =	99.0	82.0	98.0	89.5	99.0	99.0
9 SureStart II (4.16 SC)	1.04 lb ai/a	A	301	99.0	75.0	95.0	60.0	99.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B	303	99.0	83.0	99.0	83.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B	701	99.0	60.0	75.0	75.0	99.0	99.0
			1001	99.0	30.0	85.0	60.0	99.0	99.0
			Mean =	99.0	62.0	88.5	69.5	99.0	99.0
10 SureStart II (4.16 SC)	1.3 lb ai/a	A	302	99.0	90.0	99.0	73.0	99.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B	503	99.0	85.0	99.0	85.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B	801	99.0	50.0	95.0	50.0	90.0	99.0
			1002	99.0	85.0	97.0	75.0	99.0	99.0
			Mean =	99.0	77.5	97.5	70.8	96.8	99.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf			
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-21-2014	May-21-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V4	V4	V4	V4			
Pest Stage Majority	.25	1.5	1.5	3	.5	1.5			
Pest Density, Unit			1 FT2	7 YD2	4 FT2	1 YD2			
Days After First/Last Applic.	15 15	15 15	27 27	27 27	27 27	27 27			
Plant-Eval Interval	16 DP-1	16 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	9 DE-1	9 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	Plot	1	2	3	4	5	6
11 SureStart II (4.16 SC)	1.3 lb ai/a	A	104	97.0	60.0	99.0	60.0	99.0	99.0
Atrazine	1 lb ai/a	A	304	99.0	85.0	99.0	85.0	99.0	99.0
Durango DMA (4 SL)	0.75 lb ae/a	B	604	99.0	85.0	99.0	85.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B	804	99.0	70.0	99.0	70.0	99.0	99.0
			Mean =	98.5	75.0	99.0	75.0	99.0	99.0
12 Corvus	1.84 oz ai/a	A	204	99.0	87.0	99.0	94.0	99.0	99.0
Atrazine	1 lb ai/a	A	404	99.0	70.0	99.0	85.0	99.0	99.0
Abundit (3 SL)	0.75 lb ae/a	B	704	99.0	50.0	99.0	75.0	99.0	99.0
AMS - Liquid	2 lb ai/a	B	904	99.0	20.0	99.0	65.0	99.0	99.0
			Mean =	99.0	56.8	99.0	79.8	99.0	99.0

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Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifi>	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Code	ZEAMX			ZEAMX	ZEAMX
BBCH Scale	BCOR			BCOR	BCOR
Crop Scientific Name	Zea mays			Zea mays	Zea mays
Crop Name	Corn			Corn	Corn
Rating Date	Jun-2-2014			Jul-2-2014	Jul-2-2014
Rating Type	PHYGEN			CONTRO	CONTRO
Rating Unit	%			%	%
Number of Subsamples	1			1	1
Crop Stage Majority				V7	V7
Pest Stage Majority				2-50	3-20
Pest Density, Unit				2 FT2	3 FT2
Days After First/Last Applic.	27 27			57 26	57 26
Plant-Eval Interval	28 DP-1			58 DP-1	58 DP-1
Days After Emergence	21 DE-1			51 DE-1	51 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	Plot	7	8
1 Untreated Weed-Free Check			101	0.0	0.0
			405	0.0	0.0
			702	0.0	0.0
			805	0.0	0.0
			Mean =	0.0	0.0
2 Resolve (25 SG)	0.25 oz ai/a A		102	0.0	80.0
Mesotrione (50 WG)	2.5 oz ai/a A		403	0.0	70.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a A		602	0.0	40.0
Abundit (3 SL)	0.75 lb ae/a B		803	0.0	70.0
AMS - Liquid	2 lb ai/a B				
			Mean =	0.0	65.0
3 Resolve (25 SG)	0.25 oz ai/a A		103	0.0	80.0
Mesotrione (50 WG)	2.5 oz ai/a A		502	0.0	85.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a A		703	0.0	85.0
Atrazine	1 lb ai/a B		901	0.0	80.0
Abundit (3 SL)	0.75 lb ae/a B				
AMS - Liquid	2 lb ai/a B				
			Mean =	0.0	82.5
4 Resolve (25 SG)	0.25 oz ai/a A		105	0.0	95.0
Mesotrione (50 WG)	2.5 oz ai/a A		402	0.0	90.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a A		605	0.0	95.0
Resolve (25 SG)	0.3 oz ai/a B		903	0.0	85.0
Mesotrione (50 WG)	1.25 oz ai/a B				
Isoxadifen (50 WG)	0.15 oz ai/a B				
Abundit (3 SL)	0.75 lb ae/a B				
AMS - Liquid	2 lb ai/a B				
			Mean =	0.0	91.3

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Pest Type		W Weed	W Weed
Pest Code		AMBTR	SETFA
Pest Scientific Name		Ambrosia trifida	Setaria faberi
Pest Name		Giant ragweed	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jun-2-2014	Jul-2-2014	Jul-2-2014
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Crop Stage Majority		V7	V7
Pest Stage Majority		2-50	3-20
Pest Density, Unit		2 FT2	3 FT2
Days After First/Last Applic.	27 27	57 26	57 26
Plant-Eval Interval	28 DP-1	58 DP-1	58 DP-1
Days After Emergence	21 DE-1	51 DE-1	51 DE-1

Trt	Treatment	Rate	Appl				
No.	Name	Rate Unit	Code	Plot	7	8	
5	Resolve (25 SG)	0.25 oz ai/a	A	201	0.0	85.0	80.0
	Mesotrione (50 WG)	2.5 oz ai/a	A	505	0.0	75.0	99.0
	Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A	705	0.0	30.0	99.0
	Abundit (3 SL)	0.75 lb ae/a	B	905	0.0	60.0	99.0
	AMS - Liquid	2 lb ai/a	B				
	Mean =				0.0	62.5	94.3
6	Resolve (25 SG)	0.25 oz ai/a	A	202	0.0	80.0	99.0
	Mesotrione (50 WG)	2.5 oz ai/a	A	501	0.0	70.0	99.0
	Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A	802	0.0	70.0	99.0
	Atrazine	1 lb ai/a	B	1005	0.0	99.0	95.0
	Abundit (3 SL)	0.75 lb ae/a	B				
	AMS - Liquid	2 lb ai/a	B				
	Mean =				0.0	79.8	98.0
7	Resolve (25 SG)	0.25 oz ai/a	A	203	0.0	95.0	99.0
	Mesotrione (50 WG)	2.5 oz ai/a	A	401	0.0	80.0	95.0
	Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A	601	0.0	80.0	70.0
	Resolve (25 SG)	0.3 oz ai/a	B	902	0.0	95.0	99.0
	Mesotrione (50 WG)	1.25 oz ai/a	B				
	Isoxadifen (50 WG)	0.15 oz ai/a	B				
	Abundit (3 SL)	0.75 lb ae/a	B				
	AMS - Liquid	2 lb ai/a	B				
	Mean =				0.0	87.5	90.8
8	Lumax EZ (3.95 SC)	2.96 lb ai/a	A	205	0.0	85.0	99.0
	Abundit (3 SL)	0.75 lb ae/a	B	305	0.0	60.0	99.0
	AMS - Liquid	2 lb ai/a	B	603	0.0	60.0	99.0
				1003	0.0	95.0	99.0
	Mean =				0.0	75.0	99.0
9	SureStart II (4.16 SC)	1.04 lb ai/a	A	301	0.0	65.0	99.0
	Durango DMA (4 SL)	0.75 lb ae/a	B	303	0.0	50.0	99.0
	AMS - Liquid	2 lb ai/a	B	701	0.0	60.0	95.0
				1001	0.0	60.0	70.0
	Mean =				0.0	58.8	90.8
10	SureStart II (4.16 SC)	1.3 lb ai/a	A	302	0.0	70.0	99.0
	Durango DMA (4 SL)	0.75 lb ae/a	B	503	0.0	65.0	99.0
	AMS - Liquid	2 lb ai/a	B	801	0.0	55.0	99.0
				1002	0.0	90.0	90.0
	Mean =				0.0	70.0	96.8

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Pest Type		W Weed	W Weed
Pest Code		AMBTR	SETFA
Pest Scientific Name		Ambrosia trifida	Setaria faberii
Pest Name		Giant ragweed	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jun-2-2014	Jul-2-2014	Jul-2-2014
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Crop Stage Majority		V7	V7
Pest Stage Majority		2-50	3-20
Pest Density, Unit		2 FT2	3 FT2
Days After First/Last Applic.	27 27	57 26	57 26
Plant-Eval Interval	28 DP-1	58 DP-1	58 DP-1
Days After Emergence	21 DE-1	51 DE-1	51 DE-1

Trt	Treatment	Rate	Appl				
No.	Name	Rate Unit	Code	Plot	7	8	9
11	SureStart II (4.16 SC)	1.3 lb ai/a	A	104	0.0	75.0	99.0
	Atrazine	1 lb ai/a	A	304	0.0	50.0	99.0
	Durango DMA (4 SL)	0.75 lb ae/a	B	604	0.0	40.0	99.0
	AMS - Liquid	2 lb ai/a	B	804	0.0	50.0	99.0
				Mean =	0.0	53.8	99.0
12	Corvus	1.84 oz ai/a	A	204	0.0	90.0	99.0
	Atrazine	1 lb ai/a	A	404	0.0	50.0	99.0
	Abundit (3 SL)	0.75 lb ae/a	B	704	0.0	50.0	99.0
	AMS - Liquid	2 lb ai/a	B	904	0.0	40.0	99.0
				Mean =	0.0	57.5	99.0

Purdue University

Weed Control Programs with Instigate

Trial ID: 14S-THP-CTC-11 Protocol ID: 14S-THP-CTC-11
 Location: Throckmorton Study Director:
 Project ID: USA-14-009 Investigator: Dr. Bill Johnson
 Sponsor Contact: DuPont

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 CHEAL, Chenopodium album, = US
 ABUTH, Abutilon theophrasti, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

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

Rating Unit

% = percent

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

16 DP-1 = 1 ZEAMD May-5-2014
 28 DP-1 = 1 ZEAMD May-5-2014
 58 DP-1 = 1 ZEAMD May-5-2014

Purdue University

Weed Control Programs with Instigate

Trial ID: 14S-THP-CTC-11 Protocol ID: 14S-THP-CTC-11
 Location: Throckmorton Study Director:
 Project ID: USA-14-009 Investigator: Dr. Bill Johnson
 Sponsor Contact: DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Common lambsqu>	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		
Rating Date	May-21-2014	May-21-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V1	V1	V4	V4	V4	V4	V4		
Pest Stage Majority	.25	1.5	1.5	3	.5	1.5			
Pest Density, Unit			1 FT2	7 YD2	4 FT2	1 YD2			
Days After First/Last Applic.	15 15	15 15	27 27	27 27	27 27	27 27	27 27		
Plant-Eval Interval	16 DP-1	16 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1		
Days After Emergence	9 DE-1	9 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
1 Untreated Weed-Free Check			0.0 b	0.0 b	0.0 c	0.0 c	0.0 b	0.0 b	0.0 a
2 Resolve (25 SG)	0.25 oz ai/a A		99.0 a	80.8 a	98.0 a	92.0 a	99.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a A								
Cinch ATZ (5.5 SC)	2.06 lb ai/a A								
Abundit (3 SL)	0.75 lb ae/a B								
AMS - Liquid	2 lb ai/a B								
3 Resolve (25 SG)	0.25 oz ai/a A		99.0 a	71.0 a	96.8 a	90.3 a	99.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a A								
Cinch ATZ (5.5 SC)	2.06 lb ai/a A								
Atrazine	1 lb ai/a B								
Abundit (3 SL)	0.75 lb ae/a B								
AMS - Liquid	2 lb ai/a B								
4 Resolve (25 SG)	0.25 oz ai/a A		99.0 a	55.0 a	97.5 a	85.0 ab	99.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a A								
Cinch ATZ (5.5 SC)	2.06 lb ai/a A								
Resolve (25 SG)	0.3 oz ai/a B								
Mesotrione (50 WG)	1.25 oz ai/a B								
Isoxadifen (50 WG)	0.15 oz ai/a B								
Abundit (3 SL)	0.75 lb ae/a B								
AMS - Liquid	2 lb ai/a B								
5 Resolve (25 SG)	0.25 oz ai/a A		99.0 a	67.0 a	99.0 a	88.5 a	99.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a A								
Breakfree ATZ (5.25 SC)	1.97 lb ai/a A								
Abundit (3 SL)	0.75 lb ae/a B								
AMS - Liquid	2 lb ai/a B								
6 Resolve (25 SG)	0.25 oz ai/a A		99.0 a	84.5 a	98.5 a	93.0 a	99.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a A								
Breakfree ATZ (5.25 SC)	1.97 lb ai/a A								
Atrazine	1 lb ai/a B								
Abundit (3 SL)	0.75 lb ae/a B								
AMS - Liquid	2 lb ai/a 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

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf			
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-21-2014	May-21-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014	Jun-2-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V4	V4	V4	V4			
Pest Stage Majority	.25	1.5	1.5	3	.5	1.5			
Pest Density, Unit			1 FT2	7 YD2	4 FT2	1 YD2			
Days After First/Last Applic.	15 15	15 15	27 27	27 27	27 27	27 27			
Plant-Eval Interval	16 DP-1	16 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	9 DE-1	9 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
7 Resolve (25 SG)	0.25 oz ai/a	A	99.0 a	86.8 a	97.0 a	93.5 a	99.0 a	99.0 a	0.0 a
Mesotrione (50 WG)	2.5 oz ai/a	A							
Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A							
Resolve (25 SG)	0.3 oz ai/a	B							
Mesotrione (50 WG)	1.25 oz ai/a	B							
Isoxadifen (50 WG)	0.15 oz ai/a	B							
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
8 Lumax EZ (3.95 SC)	2.96 lb ai/a	A	99.0 a	82.0 a	98.0 a	89.5 a	99.0 a	99.0 a	0.0 a
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
9 SureStart II (4.16 SC)	1.04 lb ai/a	A	99.0 a	62.0 a	88.5 b	69.5 b	99.0 a	99.0 a	0.0 a
Durango DMA (4 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
10 SureStart II (4.16 SC)	1.3 lb ai/a	A	99.0 a	77.5 a	97.5 a	70.8 b	96.8 a	99.0 a	0.0 a
Durango DMA (4 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
11 SureStart II (4.16 SC)	1.3 lb ai/a	A	98.5 a	75.0 a	99.0 a	75.0 ab	99.0 a	99.0 a	0.0 a
Atrazine	1 lb ai/a	A							
Durango DMA (4 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
12 Corvus	1.84 oz ai/a	A	99.0 a	56.8 a	99.0 a	79.8 ab	99.0 a	99.0 a	0.0 a
Atrazine	1 lb ai/a	A							
Abundit (3 SL)	0.75 lb ae/a	B							
AMS - Liquid	2 lb ai/a	B							
LSD (P=.05)			0.42	24.37	5.16	11.68	1.88	0.00	0.00
Standard Deviation			0.29	16.88	3.58	8.09	1.30	0.00	0.00
CV			0.32	25.37	4.02	10.47	1.43	0.0	0.0
Bartlett's X2			0.0	8.711	23.511	18.234	0.0	0.0	0.0
P(Bartlett's X2)			.	0.56	0.001*	0.051	.	.	.
Replicate F			1.000	1.458	1.739	2.186	1.000	0.000	0.000
Replicate Prob(F)			0.4051	0.2437	0.1781	0.1083	0.4051	1.0000	1.0000
Treatment F			39169.004	7.739	248.576	40.694	1929.000	0.000	0.000
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

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Trt No.	Treatment	Rate	Appl Code	W Weed	W Weed
		Unit		AMBTR	SETFA
				Ambrosia trifida	Setaria faberii
				Giant ragweed	Giant foxtail
				ZEAMX	ZEAMX
				BCOR	BCOR
				Zea mays	Zea mays
				Corn	Corn
				Jul-2-2014	Jul-2-2014
				CONTRO	CONTRO
				%	%
				1	1
				V7	V7
				2-50	3-20
				2 FT2	3 FT2
				57 26	57 26
				58 DP-1	58 DP-1
				51 DE-1	51 DE-1
1	Untreated Weed-Free Check			8	9
				0.0 e	0.0 b
2	Resolve (25 SG)	0.25 oz ai/a	A	65.0 a-d	99.0 a
	Mesotrione (50 WG)	2.5 oz ai/a	A		
	Cinch ATZ (5.5 SC)	2.06 lb ai/a	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	2 lb ai/a	B		
3	Resolve (25 SG)	0.25 oz ai/a	A	82.5 abc	99.0 a
	Mesotrione (50 WG)	2.5 oz ai/a	A		
	Cinch ATZ (5.5 SC)	2.06 lb ai/a	A		
	Atrazine	1 lb ai/a	B		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	2 lb ai/a	B		
4	Resolve (25 SG)	0.25 oz ai/a	A	91.3 a	99.0 a
	Mesotrione (50 WG)	2.5 oz ai/a	A		
	Cinch ATZ (5.5 SC)	2.06 lb ai/a	A		
	Resolve (25 SG)	0.3 oz ai/a	B		
	Mesotrione (50 WG)	1.25 oz ai/a	B		
	Isoxadifen (50 WG)	0.15 oz ai/a	B		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	2 lb ai/a	B		
5	Resolve (25 SG)	0.25 oz ai/a	A	62.5 bcd	94.3 a
	Mesotrione (50 WG)	2.5 oz ai/a	A		
	Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	2 lb ai/a	B		
6	Resolve (25 SG)	0.25 oz ai/a	A	79.8 a-d	98.0 a
	Mesotrione (50 WG)	2.5 oz ai/a	A		
	Breakfree ATZ (5.25 SC)	1.97 lb ai/a	A		
	Atrazine	1 lb ai/a	B		
	Abundit (3 SL)	0.75 lb ae/a	B		
	AMS - Liquid	2 lb ai/a	B		

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Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Code	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays
Crop Name	Corn	Corn
Rating Date	Jul-2-2014	Jul-2-2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Crop Stage Majority	V7	V7
Pest Stage Majority	2-50	3-20
Pest Density, Unit	2 FT2	3 FT2
Days After First/Last Applic.	57 26	57 26
Plant-Eval Interval	58 DP-1	58 DP-1
Days After Emergence	51 DE-1	51 DE-1
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	8	9
7 Resolve (25 SG)	0.25 oz ai/a A	87.5 ab
Mesotrione (50 WG)	2.5 oz ai/a A	90.8 a
Breakfree ATZ (5.25 SC)	1.97 lb ai/a A	
Resolve (25 SG)	0.3 oz ai/a B	
Mesotrione (50 WG)	1.25 oz ai/a B	
Isoxadifen (50 WG)	0.15 oz ai/a B	
Abundit (3 SL)	0.75 lb ae/a B	
AMS - Liquid	2 lb ai/a B	
8 Lumax EZ (3.95 SC)	2.96 lb ai/a A	75.0 a-d
Abundit (3 SL)	0.75 lb ae/a B	99.0 a
AMS - Liquid	2 lb ai/a B	
9 SureStart II (4.16 SC)	1.04 lb ai/a A	58.8 cd
Durango DMA (4 SL)	0.75 lb ae/a B	90.8 a
AMS - Liquid	2 lb ai/a B	
10 SureStart II (4.16 SC)	1.3 lb ai/a A	70.0 a-d
Durango DMA (4 SL)	0.75 lb ae/a B	96.8 a
AMS - Liquid	2 lb ai/a B	
11 SureStart II (4.16 SC)	1.3 lb ai/a A	53.8 d
Atrazine	1 lb ai/a A	99.0 a
Durango DMA (4 SL)	0.75 lb ae/a B	
AMS - Liquid	2 lb ai/a B	
12 Corvus	1.84 oz ai/a A	57.5 cd
Atrazine	1 lb ai/a A	99.0 a
Abundit (3 SL)	0.75 lb ae/a B	
AMS - Liquid	2 lb ai/a B	
LSD (P=.05)	17.42	9.55
Standard Deviation	12.07	6.61
CV	18.48	7.46
Bartlett's X2	16.93	10.417
P(Bartlett's X2)	0.076	0.034*
Replicate F	5.863	0.526
Replicate Prob(F)	0.0025	0.6673
Treatment F	15.722	72.260
Treatment Prob(F)	0.0001	0.0001

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Weed Control Programs with Instigate

Trial ID: 14S-THP-CTC-11 Protocol ID: 14S-THP-CTC-11
Location: Throckmorton Study Director:
Project ID: USA-14-009 Investigator: Dr. Bill Johnson
Sponsor Contact: DuPont

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

AMBTR, Ambrosia trifida, = US

CHEAL, Chenopodium album, = US

ABUTH, Abutilon theophrasti, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

16 DP-1 = 1 ZEAMD May-5-2014

28 DP-1 = 1 ZEAMD May-5-2014

58 DP-1 = 1 ZEAMD May-5-2014