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To evaluate F9387 on the bio efficacy of small and large seeded broadleaf weeds in corn

Trial ID: 13S-THP-CTC-05 Protocol ID: 13S-THP-CTC-05
 Location: Field Study Director: Bill Johnson
 Project ID: NA13-1115A (Uni) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: Mar-18-2013 **Planned Completion Date:** Sep-10-2013

Trial Location

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

Keywords: Weed control, crop safety, Fluthiacet methyl, mesotrione

Objectives:

1. To evaluate bioefficacy of F9387 a premix prototype on glyphosate resistant Waterhemp, common and giant ragweed and other broad spectrum weeds
2. To examine crop safety of corn

Personnel

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

Cooperator/Landowner

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

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

Crop Description

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

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

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Pest Description

Pest 1 Type: W **Code:** AMATA *Amaranthus tamariscinus*
Common Name: Common waterhemp

Pest 2 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 4 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Pest 5 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Pest 6 Type: W **Code:** AMAPA *Amaranthus palmeri*
Common Name: Palmer amaranth

Pest 7 Type: W **Code:** KCHSC *Kochia scoparia*
Common Name: Kochia

Pest 8 Type: W **Code:** HELAN *Helianthus annuus*
Common Name: Common sunflower
Description: volunteer or wild

Pest 9 Type: W **Code:** XANOR *Xanthium orientale*
Common Name: Common cocklebur

Pest10 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT²
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

Maintenance

No.	Date	Rate	Rate Unit
1.	May-9-2013	0.25	PT/A

Comment: BLANKET PRE DUALII

Soil Description

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

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Application Description

	A	B
Time of Day:	7:45 AM	
Application Method:	SPRAY	SPRAY
Application Timing:	EAPOWE	POSPOS
Application Placement:	FOLIAR	FOLIAR
Applied By:	MW	
Air Temperature, Unit:	52 F	
% Relative Humidity:	64	
Wind Velocity, Unit:	1.7 MPH	
Wind Direction:	E	
Dew Presence (Y/N):	Y yes	
Soil Temperature, Unit:	49 F	
Soil Moisture:	SLIWET	
% Cloud Cover:	10	

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	
Stage Majority, Percent:	V3	

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMATA W	AMATA W
Pest 2 Code, Type, Scale:	AMBEL W	AMBEL W
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Height Minimum, Maximum:	1 4	
Density, Unit:	3 YD2	
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Pest 6 Code, Type, Scale:	AMAPA W	AMAPA W
Pest 7 Code, Type, Scale:	KCHSC W	KCHSC W
Pest 8 Code, Type, Scale:	HELAN W	HELAN W
Pest 9 Code, Type, Scale:	XANOR W	XANOR W
Pest10 Code, Type, Scale:	SETFA W	SETFA W
Height Minimum, Maximum:	1 3	
Density, Unit:	7 YD2	

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Application Equipment

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

Equipment Comment: Treatments will be applied by Backpack Knapshak Sprayer with CO2 pressurized tank

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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 to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	405	702	805
2	ROUNDUP POWERMAX AMS - Liquid	5.5 LB/GAL	SL	22 fl oz/a	0.95 lb ai/a			EAPOWE A	4"	Weeds	21.48 ml/mx	102	404	602	804	
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
3	F9387-1 COC AMS - Liquid	4.00 LB/GAL	SC	2.0 fl oz/a	0.0614 lb ai/a			EAPOWE A	4"	Weeds	1.953 ml/mx	104	502	704	901	
		100 %W/W	SL	1.0 % v/v	1.0 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
4	F9387-1 COC AMS - Liquid	4.00 LB/GAL	SC	2.5 fl oz/a	0.077 lb ai/a			EAPOWE A	4"	Weeds	2.441 ml/mx	105	402	605	904	
		100 %W/W	SL	1.0 % v/v	1.0 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
5	F9387-1 COC AMS - Liquid	4.00 LB/GAL	SC	3.15 fl oz/a	0.098 lb ai/a			EAPOWE A	4"	Weeds	3.076 ml/mx	201	505	705	905	
		100 %W/W	SL	1.0 % v/v	1.0 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
6	CALLISTO COC AMS - Liquid	4 LB/GAL	SC	3 fl oz/a	0.094 lb ai/a			EAPOWE A	4"	Weeds	2.93 ml/mx	202	501	802	1005	
		100 %W/W	SL	1.0 % v/v	1.0 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
7	F9387-1 AATREX COC AMS - Liquid	4 LB/GAL	SC	2.5 fl oz/a	0.078 lb ai/a			EAPOWE A	4"	Weeds	2.441 ml/mx	204	401	601	902	
		4 LB/GAL	SC	16 fl oz/a	0.5 lb ai/a			EAPOWE A	4"	Weeds	15.62 ml/mx					
		100 %W/W	SL	1.0 % v/v	1.0 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
8	F9387-1 AATREX COC AMS - Liquid	4 LB/GAL	SC	2.5 fl oz/a	0.078 lb ai/a			EAPOWE A	4"	Weeds	2.441 ml/mx	205	305	604	1004	
		4 LB/GAL	SC	48 fl oz/a	1.5 lb ai/a			EAPOWE A	4"	Weeds	46.87 ml/mx					
		100 %W/W	SL	1.0 % v/v	1.0 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
9	F9387-1 Status (56 SG) NON IONIC SURFACTANT AMS - Liquid	4.00 LB/GAL	SC	2.5 fl oz/a	0.078 lb ai/a			EAPOWE A	4"	Weeds	2.441 ml/mx	301	304	701	1001	
		56 %	SG	2.5 oz wt/a	0.0875 lb ai/a			EAPOWE A	4"	Weeds	2.34 g/mx					
		100 %W/W	SL	0.25 % v/v	0.25 % v/v			EAPOWE A	4"	Weeds	6.249 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
10	STATUS herbicide NON IONIC SURFACTANT AMS - Liquid	56 %W/W	DF	5 oz/a	0.175 lb ai/a			EAPOWE A	4"	Weeds	4.681 g/mx	302	504	801	1002	
		100 %W/W	SL	0.25 % v/v	0.25 % v/v			EAPOWE A	4"	Weeds	6.249 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
11	CALLISTO AATREX COC AMS - Liquid	4 LB/GAL	SC	3 fl oz/a	0.094 lb ai/a			EAPOWE A	4"	Weeds	2.93 ml/mx	103	303	603	803	
		4 LB/GAL	SC	16 fl oz/a	0.5 lb ai/a			EAPOWE A	4"	Weeds	15.62 ml/mx					
		100 %W/W	SL	1 % v/v	1 % v/v			EAPOWE A	4"	Weeds	25.0 ml/mx					
		3.4 LB/GAL	SL	2.5 % v/v	8.5 lb ai/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					
12	SureStart (4.25 SC) Durango DMA (4 SL) AMS - Liquid	4.25 LBA/GAL	SC	1.06 lb ai/a	2 pt/a			EAPOWE A	4"	Weeds	31.17 ml/mx	203	403	703	903	
		4 LBAE/GAL	SL	0.75 lb ae/a	1.5 pt/a			EAPOWE A	4"	Weeds	23.43 ml/mx					
		3.4 LB/GAL	SL	8.5 lb ai/100 gal	10 qt/100 gal			EAPOWE A	4"	Weeds	62.49 ml/mx					

Sort Order: Treatment

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL		SETFA	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code			ZEAMX			
BBCH Scale			BCOR			
Crop Scientific Name			Zea mays			
Crop Name			Corn			
Rating Date	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-18-2013	Jun-18-2013	Jun-18-2013
Rating Type	CONTRO	CONTRO	PHYNLS	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Pest Stage Majority	8 IN	2 IN				
Pest Density, Unit	2 YD2	2 YD2				
Assessed By	MW	MW	MW	MW	MW	MW
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	13 DA-A	13 DA-A	13 DA-A
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	31 DE-1	31 DE-1	31 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 ROUNDUP POWERMAX	22 fl oz/a	A 102	95.0	99.0	0.0	99.0
AMS - Liquid	2.5 % v/v	A 404	75.0	99.0	0.0	97.0
		602	70.0	99.0	0.0	99.0
		804	75.0	90.0	0.0	99.0
		Mean =	78.8	96.8	0.0	98.5
3 F9387-1	2.0 fl oz/a	A 104	80.0	99.0	5.0	80.0
COC	1.0 % v/v	A 502	80.0	99.0	5.0	60.0
AMS - Liquid	2.5 % v/v	A 704	85.0	97.0	5.0	95.0
		901	85.0	97.0	5.0	93.0
		Mean =	82.5	98.0	5.0	82.0
4 F9387-1	2.5 fl oz/a	A 105	75.0	99.0	7.0	75.0
COC	1.0 % v/v	A 402	80.0	90.0	5.0	65.0
AMS - Liquid	2.5 % v/v	A 605	90.0	99.0	5.0	80.0
		904	85.0	99.0	5.0	60.0
		Mean =	82.5	96.8	5.5	70.0
5 F9387-1	3.15 fl oz/a	A 201	85.0	95.0	7.0	85.0
COC	1.0 % v/v	A 505	85.0	99.0	5.0	90.0
AMS - Liquid	2.5 % v/v	A 705	85.0	99.0	10.0	90.0
		905	85.0	99.0	5.0	70.0
		Mean =	85.0	98.0	6.8	83.8
6 CALLISTO	3 fl oz/a	A 202	85.0	99.0	0.0	80.0
COC	1.0 % v/v	A 501	80.0	70.0	3.0	90.0
AMS - Liquid	2.5 % v/v	A 802	90.0	99.0	0.0	90.0
		1005	85.0	99.0	0.0	30.0
		Mean =	85.0	91.8	0.8	72.5

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL		SETFA	AMBTR	CHEAL	
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>	
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>	
Crop Code			ZEAMX				
BBCH Scale			BCOR				
Crop Scientific Name			Zea mays				
Crop Name			Corn				
Rating Date	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-18-2013	Jun-18-2013	Jun-18-2013	Jun-18-2013
Rating Type	CONTRO	CONTRO	PHYNLS	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Pest Stage Majority	8 IN	2 IN					
Pest Density, Unit	2 YD2	2 YD2					
Assessed By	MW	MW	MW	MW	MW	MW	MW
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	1	2	3	4	5
7 F9387-1	2.5 fl oz/a	A 204	95.0	99.0	15.0	90.0	97.0
AATREX	16 fl oz/a	A 401	90.0	95.0	10.0	85.0	80.0
COC	1.0 % v/v	A 601	90.0	99.0	7.0	90.0	95.0
AMS - Liquid	2.5 % v/v	A 902	95.0	99.0	10.0	95.0	97.0
	Mean =		92.5	98.0	10.5	90.0	92.3
8 F9387-1	2.5 fl oz/a	A 205	97.0	99.0	10.0	80.0	90.0
AATREX	48 fl oz/a	A 305	97.0	99.0	10.0	93.0	97.0
COC	1.0 % v/v	A 604	85.0	80.0	7.0	60.0	70.0
AMS - Liquid	2.5 % v/v	A 1004	90.0	99.0	0.0	80.0	99.0
	Mean =		92.3	94.3	6.8	78.3	89.0
9 F9387-1	2.5 fl oz/a	A 301	75.0	85.0	3.0	90.0	90.0
Status (56 SG)	2.5 oz wt/a	A 304	85.0	99.0	3.0	95.0	97.0
NON IONIC SURFACTANT	0.25 % v/v	A 701	80.0	99.0	3.0	95.0	90.0
AMS - Liquid	2.5 % v/v	A 1001	85.0	99.0	3.0	90.0	90.0
	Mean =		81.3	95.5	3.0	92.5	91.8
10 STATUS herbicide	5 oz/a	A 302	80.0	80.0	0.0	93.0	90.0
NON IONIC SURFACTANT	0.25 % v/v	A 504	85.0	80.0	0.0	87.0	90.0
AMS - Liquid	2.5 % v/v	A 801	80.0	80.0	0.0	93.0	90.0
		1002	80.0	80.0	0.0	97.0	95.0
	Mean =		81.3	80.0	0.0	92.5	91.3
11 CALLISTO	3 fl oz/a	A 103	85.0	90.0	0.0	85.0	95.0
AATREX	16 fl oz/a	A 303	95.0	99.0	0.0	95.0	95.0
COC	1 % v/v	A 603	90.0	99.0	0.0	85.0	93.0
AMS - Liquid	2.5 % v/v	A 803	95.0	99.0	0.0	70.0	97.0
	Mean =		91.3	96.8	0.0	83.8	95.0
12 SureStart (4.25 SC)	1.06 lb ai/a	A 203	80.0	90.0	3.0	97.0	80.0
Durango DMA (4 SL)	0.75 lb ae/a	A 403	85.0	99.0	0.0	99.0	93.0
AMS - Liquid	8.5 lb ai/100 gal	A 703	85.0	99.0	0.0	99.0	95.0
		903	80.0	99.0	0.0	99.0	97.0
	Mean =		82.5	96.8	0.8	98.5	91.3

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Pest Type				W Weed			W Weed	W Weed	W Weed
Pest Code				ABUTH			SETFA	AMBTR	CHEAL
Pest Scientific Name				Abutilon theop>			Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name				Velvetleaf			Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code					ZEAMX	ZEAMX			
BBCH Scale					BCOR	BCOR			
Crop Scientific Name					Zea mays	Zea mays			
Crop Name					Corn	Corn			
Rating Date				Jun-18-2013	Jun-18-2013	Jun-18-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013
Rating Type				CONTRO	PHYNEC	PHYSTU	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%	%
Number of Subsamples				1	1	1	1	1	1
Pest Stage Majority							40 IN	60 IN	42 IN
Pest Density, Unit							30 FT2	8 YD2	4 YD2
Assessed By				MW	MW	MW	MW	MW	MW
Trt-Eval Interval				13 DA-A	13 DA-A	13 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval				40 DP-1	40 DP-1	40 DP-1	60 DP-1	60 DP-1	60 DP-1
Days After Emergence				31 DE-1	31 DE-1	31 DE-1	51 DE-1	51 DE-1	51 DE-1
Trt No.	Treatment Name	Rate	Appl Code	7	8	9	10	11	12
		Rate Unit	Code Plot						
1	Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
			405	0.0	0.0	0.0	0.0	0.0	0.0
			702	0.0	0.0	5.0	0.0	0.0	0.0
			805	0.0	0.0	0.0	0.0	0.0	0.0
			Mean =	0.0	0.0	1.3	0.0	0.0	0.0
2	ROUNDUP POWERMAX	22 fl oz/a	A 102	99.0	0.0	3.0	95.0	87.0	95.0
	AMS - Liquid	2.5 % v/v	A 404	85.0	0.0	0.0	95.0	60.0	93.0
			602	99.0	0.0	5.0	95.0	93.0	95.0
			804	99.0	0.0	5.0	95.0	70.0	93.0
			Mean =	95.5	0.0	3.3	95.0	77.5	94.0
3	F9387-1	2.0 fl oz/a	A 104	99.0	7.0	0.0	80.0	95.0	99.0
	COC	1.0 % v/v	A 502	99.0	5.0	0.0	70.0	90.0	99.0
	AMS - Liquid	2.5 % v/v	A 704	99.0	7.0	0.0	93.0	80.0	99.0
			901	99.0	3.0	7.0	85.0	90.0	90.0
			Mean =	99.0	5.5	1.8	82.0	88.8	96.8
4	F9387-1	2.5 fl oz/a	A 105	99.0	7.0	0.0	80.0	99.0	99.0
	COC	1.0 % v/v	A 402	99.0	3.0	0.0	0.0	75.0	99.0
	AMS - Liquid	2.5 % v/v	A 605	99.0	5.0	0.0	40.0	85.0	99.0
			904	90.0	5.0	0.0	0.0	99.0	99.0
			Mean =	96.8	5.0	0.0	30.0	89.5	99.0
5	F9387-1	3.15 fl oz/a	A 201	99.0	7.0	0.0	60.0	90.0	99.0
	COC	1.0 % v/v	A 505	99.0	5.0	0.0	85.0	90.0	99.0
	AMS - Liquid	2.5 % v/v	A 705	99.0	5.0	0.0	90.0	93.0	99.0
			905	99.0	5.0	0.0	50.0	99.0	99.0
			Mean =	99.0	5.5	0.0	71.3	93.0	99.0
6	CALLISTO	3 fl oz/a	A 202	99.0	0.0	0.0	0.0	95.0	99.0
	COC	1.0 % v/v	A 501	99.0	0.0	0.0	70.0	80.0	99.0
	AMS - Liquid	2.5 % v/v	A 802	99.0	0.0	0.0	75.0	97.0	99.0
			1005	99.0	0.0	0.0	0.0	99.0	99.0
			Mean =	99.0	0.0	0.0	36.3	92.8	99.0

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				W Weed ABUTH Abutilon theop> Velvetleaf			W Weed SETFA Setaria faberi Giant foxtail	W Weed AMBTR Ambrosia trifi> Giant ragweed	W Weed CHEAL Chenopodium al> Common lambsqu>
Pest Type	Pest Code	Pest Scientific Name	Pest Name						
Crop Code	BBCH Scale	Crop Scientific Name	Crop Name						
Rating Date	Rating Type	Rating Unit	Number of Subsamples						
Pest Stage Majority	Pest Density, Unit	Assessed By	Trt-Eval Interval						
Plant-Eval Interval	Days After Emergence								
Trt Treatment	Rate	Appl	Plot	7	8	9	10	11	12
No. Name	Rate Unit	Code	Plot						
7 F9387-1	2.5 fl oz/a	A	204	99.0	7.0	3.0	90.0	99.0	99.0
AATREX	16 fl oz/a	A	401	99.0	3.0	0.0	85.0	95.0	99.0
COC	1.0 % v/v	A	601	99.0	5.0	0.0	75.0	95.0	99.0
AMS - Liquid	2.5 % v/v	A	902	99.0	7.0	10.0	95.0	99.0	99.0
	Mean =			99.0	5.5	3.3	86.3	97.0	99.0
8 F9387-1	2.5 fl oz/a	A	205	99.0	10.0	5.0	93.0	99.0	99.0
AATREX	48 fl oz/a	A	305	99.0	10.0	7.0	93.0	99.0	99.0
COC	1.0 % v/v	A	604	99.0	5.0	3.0	95.0	95.0	99.0
AMS - Liquid	2.5 % v/v	A	1004	99.0	7.0	0.0	60.0	95.0	99.0
	Mean =			99.0	8.0	3.8	85.3	97.0	99.0
9 F9387-1	2.5 fl oz/a	A	301	99.0	0.0	5.0	90.0	95.0	95.0
Status (56 SG)	2.5 oz wt/a	A	304	99.0	3.0	0.0	95.0	97.0	99.0
NON IONIC SURFACTANT	0.25 % v/v	A	701	99.0	3.0	0.0	93.0	93.0	97.0
AMS - Liquid	2.5 % v/v	A	1001	99.0	3.0	0.0	90.0	93.0	99.0
	Mean =			99.0	2.3	1.3	92.0	94.5	97.5
10 STATUS herbicide	5 oz/a	A	302	70.0	0.0	5.0	95.0	95.0	99.0
NON IONIC SURFACTANT	0.25 % v/v	A	504	80.0	0.0	0.0	87.0	93.0	99.0
AMS - Liquid	2.5 % v/v	A	801	75.0	0.0	5.0	75.0	93.0	95.0
			1002	80.0	0.0	0.0	97.0	95.0	99.0
	Mean =			76.3	0.0	2.5	88.5	94.0	98.0
11 CALLISTO	3 fl oz/a	A	103	99.0	0.0	0.0	85.0	99.0	99.0
AATREX	16 fl oz/a	A	303	99.0	0.0	7.0	93.0	99.0	99.0
COC	1 % v/v	A	603	99.0	3.0	0.0	90.0	95.0	99.0
AMS - Liquid	2.5 % v/v	A	803	99.0	0.0	0.0	70.0	99.0	99.0
	Mean =			99.0	0.8	1.8	84.5	98.0	99.0
12 SureStart (4.25 SC)	1.06 lb ai/a	A	203	85.0	0.0	3.0	95.0	93.0	95.0
Durango DMA (4 SL)	0.75 lb ae/a	A	403	99.0	0.0	3.0	97.0	93.0	99.0
AMS - Liquid	8.5 lb ai/100 gal	A	703	99.0	0.0	0.0	97.0	95.0	99.0
			903	99.0	0.0	3.0	97.0	97.0	99.0
	Mean =			95.5	0.0	2.3	96.5	94.5	98.0

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Pest Type						
Pest Code						
Pest Scientific Name						
Pest Name						
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				Jul-8-2013	Oct-4-2013	Oct-4-2013
Rating Type				PHYSTU	MOICON	YIELD
Rating Unit				%	%	bu/ac
Number of Subsamples				1	1	1
Pest Stage Majority						
Pest Density, Unit						
Assessed By				MW		
Trt-Eval Interval				33 DA-A		
Plant-Eval Interval				60 DP-1	148 DP-1	148 DP-1
Days After Emergence				51 DE-1	139 DE-1	139 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot		13	14	15
1 Untreated Check			101	0.0	19.40	176.00
			405	0.0	20.30	28.80
			702	0.0	22.70	41.20
			805	0.0	20.90	5.40
		Mean =		0.0	20.83	62.85
2 ROUNDUP POWERMAX	22 fl oz/a	A	102	0.0	19.10	189.80
AMS - Liquid	2.5 % v/v	A	404	0.0	20.40	181.30
			602	0.0	20.60	182.40
			804	0.0	20.50	240.90
		Mean =		0.0	20.15	198.60
3 F9387-1	2.0 fl oz/a	A	104	0.0	20.60	144.70
COC	1.0 % v/v	A	502	0.0	20.60	163.40
AMS - Liquid	2.5 % v/v	A	704	0.0	21.10	203.70
			901	0.0	20.30	171.00
		Mean =		0.0	20.65	170.70
4 F9387-1	2.5 fl oz/a	A	105	0.0	20.50*	167.58*
COC	1.0 % v/v	A	402	0.0	20.90	154.20
AMS - Liquid	2.5 % v/v	A	605	0.0	21.20	168.80
			904	0.0	21.20	138.10
		Mean =		0.0	20.95	157.17
5 F9387-1	3.15 fl oz/a	A	201	0.0	20.10	201.60
COC	1.0 % v/v	A	505	0.0	20.10	189.90
AMS - Liquid	2.5 % v/v	A	705	0.0	21.50	246.00
			905	0.0	21.40	132.60
		Mean =		0.0	20.78	192.53
6 CALLISTO	3 fl oz/a	A	202	0.0	20.30	193.80
COC	1.0 % v/v	A	501	0.0	21.00	120.30
AMS - Liquid	2.5 % v/v	A	802	0.0	20.60	219.90
			1005	0.0	21.10	171.60
		Mean =		0.0	20.75	176.40

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Pest Type						
Pest Code						
Pest Scientific Name						
Pest Name						
Crop Code		ZEAMX		ZEAMX	ZEAMX	ZEAMX
BBCH Scale		BCOR		BCOR	BCOR	BCOR
Crop Scientific Name		Zea mays		Zea mays	Zea mays	Zea mays
Crop Name		Corn		Corn	Corn	Corn
Rating Date		Jul-8-2013		Oct-4-2013	Oct-4-2013	Oct-4-2013
Rating Type		PHYSTU		MOICON	YIELD	
Rating Unit		%		%	bu/ac	
Number of Subsamples		1		1	1	1
Pest Stage Majority						
Pest Density, Unit						
Assessed By				MW		
Trt-Eval Interval		33 DA-A				
Plant-Eval Interval		60 DP-1		148 DP-1	148 DP-1	148 DP-1
Days After Emergence		51 DE-1		139 DE-1	139 DE-1	139 DE-1
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	
						13 14 15
7	F9387-1	2.5 fl oz/a		A	204	0.0 21.20 227.70
	AATREX	16 fl oz/a		A	401	0.0 20.90 164.00
	COC	1.0 % v/v		A	601	0.0 22.60 193.70
	AMS - Liquid	2.5 % v/v		A	902	0.0 20.60 228.50
					Mean =	0.0 21.33 203.48
8	F9387-1	2.5 fl oz/a		A	205	0.0 23.30 217.40
	AATREX	48 fl oz/a		A	305	0.0 21.70 213.00
	COC	1.0 % v/v		A	604	0.0 20.60 201.20
	AMS - Liquid	2.5 % v/v		A	1004	0.0 21.60 193.20
					Mean =	0.0 21.80 206.20
9	F9387-1	2.5 fl oz/a		A	301	0.0 20.20 175.40
	Status (56 SG)	2.5 oz wt/a		A	304	0.0 21.00 232.50
	NON IONIC SURFACTANT	0.25 % v/v		A	701	0.0 21.00 204.80
	AMS - Liquid	2.5 % v/v		A	1001	0.0 20.60 217.30
					Mean =	0.0 20.70 207.50
10	STATUS herbicide	5 oz/a		A	302	0.0 20.60 241.70
	NON IONIC SURFACTANT	0.25 % v/v		A	504	0.0 20.80 193.10
	AMS - Liquid	2.5 % v/v		A	801	0.0 20.50 229.10
					1002	0.0 21.40 205.20
					Mean =	0.0 20.83 217.28
11	CALLISTO	3 fl oz/a		A	103	0.0 18.90 148.90
	AATREX	16 fl oz/a		A	303	0.0 20.70 244.00
	COC	1 % v/v		A	603	0.0 20.00 210.80
	AMS - Liquid	2.5 % v/v		A	803	0.0 21.40 163.50
					Mean =	0.0 20.25 191.80
12	SureStart (4.25 SC)	1.06 lb ai/a		A	203	0.0 20.90 229.60
	Durango DMA (4 SL)	0.75 lb ae/a		A	403	0.0 21.20 200.80
	AMS - Liquid	8.5 lb ai/100 gal		A	703	0.0 22.50 185.80
					903	0.0 21.40 202.70
					Mean =	0.0 21.50 204.73

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To evaluate F9387 on the bio efficacy of small and large seeded broadleaf weeds in corn

Trial ID: 13S-THP-CTC-05 Protocol ID: 13S-THP-CTC-05
Location: Field Study Director: Bill Johnson
Project ID: NA13-1115A (Uni) Investigator: Dr. Bill Johnson
Sponsor Contact: FMC - Joe Reed

Pest Type

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

Pest Code

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

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
PHYNLS = phytotoxicity - necrosis, leaf spot
PHYNEC = phytotoxicity - necrosis /burn
PHYSTU = phytotoxicity - stunting
MOICON = moisture content
YIELD = yield

Rating Unit

% = percent
bu/ac = bushels per acre

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

34 DP-1 = 1 ZEAMX May-9-2013
40 DP-1 = 1 ZEAMX May-9-2013
60 DP-1 = 1 ZEAMX May-9-2013
148 DP-1 = 1 ZEAMX May-9-2013

Purdue University

To evaluate F9387 on the bio efficacy of small and large seeded broadleaf weeds in corn

Trial ID: 13S-THP-CTC-05 Protocol ID: 13S-THP-CTC-05
 Location: Field Study Director: Bill Johnson
 Project ID: NA13-1115A (Uni) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	CHEAL		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code			ZEAMX					
BBCH Scale			BCOR					
Crop Scientific Name			Zea mays					
Crop Name			Corn					
Rating Date	Jun-12-2013	Jun-12-2013	Jun-12-2013	Jun-18-2013	Jun-18-2013	Jun-18-2013		
Rating Type	CONTRO	CONTRO	PHYNLS	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Pest Stage Majority	8 IN	2 IN						
Pest Density, Unit	2 YD2	2 YD2						
Assessed By	MW	MW	MW	MW	MW	MW		
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	13 DA-A	13 DA-A	13 DA-A		
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	40 DP-1	40 DP-1	40 DP-1		
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	31 DE-1	31 DE-1	31 DE-1		
Trt Treatment	Rate	Appl	1	2	3	4	5	6
No. Name	Rate Unit	Code						
1 Untreated Check			0.0 c	0.0 c	0.0 c	0.0 c	0.0 c	0.0 b
2 ROUNDUP POWERMAX AMS - Liquid	22 fl oz/a 2.5 % v/v	A A	78.8 b	96.8 a	0.0 c	98.5 a	83.3 ab	97.5 a
3 F9387-1 COC AMS - Liquid	2.0 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	82.5 ab	98.0 a	5.0 b	82.0 ab	85.8 ab	97.5 a
4 F9387-1 COC AMS - Liquid	2.5 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	82.5 ab	96.8 a	5.5 b	70.0 b	73.8 b	95.5 a
5 F9387-1 COC AMS - Liquid	3.15 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	85.0 ab	98.0 a	6.8 b	83.8 ab	91.8 ab	99.0 a
6 CALLISTO COC AMS - Liquid	3 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	85.0 ab	91.8 a	0.8 c	72.5 ab	90.0 ab	99.0 a
7 F9387-1 AATREX COC AMS - Liquid	2.5 fl oz/a 16 fl oz/a 1.0 % v/v 2.5 % v/v	A A A A	92.5 a	98.0 a	10.5 a	90.0 ab	92.3 a	99.0 a
8 F9387-1 AATREX COC AMS - Liquid	2.5 fl oz/a 48 fl oz/a 1.0 % v/v 2.5 % v/v	A A A A	92.3 a	94.3 a	6.8 b	78.3 ab	89.0 ab	98.0 a
9 F9387-1 Status (56 SG) NON IONIC SURFACTANT AMS - Liquid	2.5 fl oz/a 2.5 oz wt/a 0.25 % v/v 2.5 % v/v	A A A A	81.3 ab	95.5 a	3.0 bc	92.5 ab	91.8 ab	99.0 a
10 STATUS herbicide NON IONIC SURFACTANT AMS - Liquid	5 oz/a 0.25 % v/v 2.5 % v/v	A A A	81.3 ab	80.0 b	0.0 c	92.5 ab	91.3 ab	93.5 a

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type			W Weed			W Weed	W Weed	W Weed			
Pest Code			ABUTH			SETFA	AMBTR	CHEAL			
Pest Scientific Name			Abutilon theop>			Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name			Velvetleaf			Giant foxtail	Giant ragweed	Common lambsqu>			
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-18-2013	Jun-18-2013	Jun-18-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013		
Rating Type			CONTRO	PHYNEC	PHYSTU	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit			%	%	%	%	%	%	%		
Number of Subsamples			1	1	1	1	1	1	1		
Pest Stage Majority						40 IN	60 IN	42 IN			
Pest Density, Unit						30 FT2	8 YD2	4 YD2			
Assessed By			MW	MW	MW	MW	MW	MW	MW		
Trt-Eval Interval			13 DA-A	13 DA-A	13 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A		
Plant-Eval Interval			40 DP-1	40 DP-1	40 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1		
Days After Emergence			31 DE-1	31 DE-1	31 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1		
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8	9	10	11	12	13
1	Untreated Check				0.0 c	0.0 c	1.3 a	0.0 c	0.0 c	0.0 c	0.0 a
2	ROUNDUP POWERMAX AMS - Liquid	22 fl oz/a 2.5 % v/v	A A		95.5 a	0.0 c	3.3 a	95.0 a	77.5 b	94.0 b	0.0 a
3	F9387-1 COC AMS - Liquid	2.0 fl oz/a 1.0 % v/v 2.5 % v/v	A A A		99.0 a	5.5 ab	1.8 a	82.0 a	88.8 a	96.8 a	0.0 a
4	F9387-1 COC AMS - Liquid	2.5 fl oz/a 1.0 % v/v 2.5 % v/v	A A A		96.8 a	5.0 b	0.0 a	30.0 b	89.5 a	99.0 a	0.0 a
5	F9387-1 COC AMS - Liquid	3.15 fl oz/a 1.0 % v/v 2.5 % v/v	A A A		99.0 a	5.5 ab	0.0 a	71.3 a	93.0 a	99.0 a	0.0 a
6	CALLISTO COC AMS - Liquid	3 fl oz/a 1.0 % v/v 2.5 % v/v	A A A		99.0 a	0.0 c	0.0 a	36.3 b	92.8 a	99.0 a	0.0 a
7	F9387-1 AATREX COC AMS - Liquid	2.5 fl oz/a 16 fl oz/a 1.0 % v/v 2.5 % v/v	A A A A		99.0 a	5.5 ab	3.3 a	86.3 a	97.0 a	99.0 a	0.0 a
8	F9387-1 AATREX COC AMS - Liquid	2.5 fl oz/a 48 fl oz/a 1.0 % v/v 2.5 % v/v	A A A A		99.0 a	8.0 a	3.8 a	85.3 a	97.0 a	99.0 a	0.0 a
9	F9387-1 Status (56 SG) NON IONIC SURFACTANT AMS - Liquid	2.5 fl oz/a 2.5 oz wt/a 0.25 % v/v 2.5 % v/v	A A A A		99.0 a	2.3 c	1.3 a	92.0 a	94.5 a	97.5 a	0.0 a
10	STATUS herbicide NON IONIC SURFACTANT AMS - Liquid	5 oz/a 0.25 % v/v 2.5 % v/v	A A A		76.3 b	0.0 c	2.5 a	88.5 a	94.0 a	98.0 a	0.0 a

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Pest Type	W Weed			W Weed	W Weed	W Weed			
Pest Code	ABUTH			SETFA	AMBTR	CHEAL			
Pest Scientific Name	Abutilon theop>			Setaria faberi	Ambrosia trifi>	Chenopodium al>			
Pest Name	Velvetleaf			Giant foxtail	Giant ragweed	Common lambsqu>			
Crop Code		ZEAMX	ZEAMX				ZEAMX		
BBCB Scale		BCOR	BCOR				BCOR		
Crop Scientific Name		Zea mays	Zea mays				Zea mays		
Crop Name		Corn	Corn				Corn		
Rating Date	Jun-18-2013	Jun-18-2013	Jun-18-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013	Jul-8-2013		
Rating Type	CONTRO	PHYNEC	PHYSTU	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Pest Stage Majority				40 IN	60 IN	42 IN			
Pest Density, Unit				30 FT2	8 YD2	4 YD2			
Assessed By	MW	MW	MW	MW	MW	MW	MW		
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A		
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1		
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	7	8	9	10	11	12	13
11 CALLISTO	3 fl oz/a	A	99.0 a	0.8 c	1.8 a	84.5 a	98.0 a	99.0 a	0.0 a
AATREX	16 fl oz/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 % v/v	A							
12 SureStart (4.25 SC)	1.06 lb ai/a	A	95.5 a	0.0 c	2.3 a	96.5 a	94.5 a	98.0 a	0.0 a
Durango DMA (4 SL)	0.75 lb ae/a	A							
AMS - Liquid	8.5 lb ai/100 gal	A							
LSD (P=.05)			5.07	1.95	3.96	26.73	9.05	2.47	0.00
Standard Deviation			3.51	1.35	2.75	18.52	6.27	1.71	0.00
CV			3.99	49.96	156.91	26.22	7.4	1.9	0.0
Bartlett's X2			0.959	2.432	4.215	39.419	37.133	6.047	0.0
P(Bartlett's X2)			0.811	0.876	0.837	0.001*	0.001*	0.196	.
Replicate F			0.455	0.743	0.184	1.417	2.324	0.407	0.000
Replicate Prob(F)			0.7153	0.5339	0.9064	0.2552	0.0930	0.7487	1.0000
Treatment F			263.155	19.337	0.916	11.287	75.446	1101.793	0.000
Treatment Prob(F)			0.0001	0.0001	0.5364	0.0001	0.0001	0.0001	1.0000

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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code		ZEAMX	ZEAMX	
BBCB Scale		BCOR	BCOR	
Crop Scientific Name		Zea mays	Zea mays	
Crop Name		Corn	Corn	
Rating Date		Oct-4-2013	Oct-4-2013	
Rating Type		MOICON	YIELD	
Rating Unit		%	bu/ac	
Number of Subsamples		1	1	
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Trt-Eval Interval				
Plant-Eval Interval		148 DP-1	148 DP-1	
Days After Emergence		139 DE-1	139 DE-1	
Trt No.	Treatment	Rate	Appl Code	
		Rate Unit		
			14	15
1	Untreated Check		20.83 a	62.85 b
2	ROUNDUP POWERMAX AMS - Liquid	22 fl oz/a 2.5 % v/v	A A	20.15 a 198.60 a
3	F9387-1 COC AMS - Liquid	2.0 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	20.65 a 170.70 a
4	F9387-1 COC AMS - Liquid	2.5 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	20.95 a 157.17 a
5	F9387-1 COC AMS - Liquid	3.15 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	20.78 a 192.53 a
6	CALLISTO COC AMS - Liquid	3 fl oz/a 1.0 % v/v 2.5 % v/v	A A A	20.75 a 176.40 a
7	F9387-1 AATREX COC AMS - Liquid	2.5 fl oz/a 16 fl oz/a 1.0 % v/v 2.5 % v/v	A A A A	21.33 a 203.48 a
8	F9387-1 AATREX COC AMS - Liquid	2.5 fl oz/a 48 fl oz/a 1.0 % v/v 2.5 % v/v	A A A A	21.80 a 206.20 a
9	F9387-1 Status (56 SG) NON IONIC SURFACTANT AMS - Liquid	2.5 fl oz/a 2.5 oz wt/a 0.25 % v/v 2.5 % v/v	A A A A	20.70 a 207.50 a
10	STATUS herbicide NON IONIC SURFACTANT AMS - Liquid	5 oz/a 0.25 % v/v 2.5 % v/v	A A A	20.83 a 217.28 a

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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code		ZEAMX	ZEAMX	
BBCH Scale		BCOR	BCOR	
Crop Scientific Name		Zea mays	Zea mays	
Crop Name		Corn	Corn	
Rating Date		Oct-4-2013	Oct-4-2013	
Rating Type		MOICON	YIELD	
Rating Unit		%	bu/ac	
Number of Subsamples		1	1	
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Trt-Eval Interval				
Plant-Eval Interval		148 DP-1	148 DP-1	
Days After Emergence		139 DE-1	139 DE-1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	14	15
11 CALLISTO	3 fl oz/a	A	20.25 a	191.80 a
AATREX	16 fl oz/a	A		
COC	1 % v/v	A		
AMS - Liquid	2.5 % v/v	A		
12 SureStart (4.25 SC)	1.06 lb ai/a	A	21.50 a	204.73 a
Durango DMA (4 SL)	0.75 lb ae/a	A		
AMS - Liquid	8.5 lb ai/100 gal	A		
LSD (P=.05)			1.074	53.232
Standard Deviation			0.744	36.867
CV			3.56	20.21
Bartlett's X2			15.91	16.05
P(Bartlett's X2)			0.145	0.139
Replicate F			2.659	1.027
Replicate Prob(F)			0.0650	0.3936
Treatment F			1.632	5.059
Treatment Prob(F)			0.1366	0.0002

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To evaluate F9387 on the bio efficacy of small and large seeded broadleaf weeds in corn

Trial ID: 13S-THP-CTC-05 Protocol ID: 13S-THP-CTC-05
 Location: Field Study Director: Bill Johnson
 Project ID: NA13-1115A (Uni) Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

Pest Type

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

Pest Code

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

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYNLS = phytotoxicity - necrosis, leaf spot
 PHYNEC = phytotoxicity - necrosis /burn
 PHYSTU = phytotoxicity - stunting
 MOICON = moisture content
 YIELD = yield

Rating Unit

% = percent
 bu/ac = bushels per acre

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

34 DP-1 = 1 ZEAMX May-9-2013
 40 DP-1 = 1 ZEAMX May-9-2013
 60 DP-1 = 1 ZEAMX May-9-2013
 148 DP-1 = 1 ZEAMX May-9-2013