

# Purdue University

## Postemergence Weed Control in Popcorn with DPX-UKU48

Trial ID: 14S-THP-CTP-28      Protocol ID: 14S-THP-CTP-28  
 Location: Throckmorton      Study Director:  
 Project ID: USA-14-011      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:** ZEAME Zea mays everta Popcorn  
**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-13-2014

### 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

### 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

# Purdue University

## 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
<b>Application Date:</b>	May-6-2014	Jun-3-2014
<b>Time of Day:</b>	AM	AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	ATPLAN	POSPOS
<b>Application Placement:</b>	SOIL	FOLIAR
<b>Air Temperature, Unit:</b>	75 F	72 F
<b>% Relative Humidity:</b>	32.5	83
<b>Wind Velocity, Unit:</b>	9.6 mph	8 mph
<b>Wind Direction:</b>	SW	SW
<b>Dew Presence (Y/N):</b>	N no	Y yes
<b>Soil Temperature, Unit:</b>	67 F	71 F
<b>Soil Moisture:</b>	Dry	Moist
<b>% Cloud Cover:</b>	10	0

## Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	ZEAME BCOR	ZEAME BCOR
<b>Stage Scale Used:</b>	BBCH	BBCH
<b>Stage Majority, Percent:</b>	00	15

## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Height Minimum, Maximum:</b>		1 4
<b>Density, Unit:</b>		4 YD2
<b>Pest 2 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Height Minimum, Maximum:</b>		1 1
<b>Density, Unit:</b>		3 FT2
<b>Pest 3 Code, Type, Scale:</b>	CHEAL W	CHEAL W
<b>Height Minimum, Maximum:</b>		1 2
<b>Density, Unit:</b>		6 FT2

# Purdue University

## Application Equipment

	A	B
<b>Appl. Equipment:</b>	CO2 FORD	CO2 FORD
<b>Equipment Type:</b>	SPTRMO	SPTRMO
<b>Operation Pressure, Unit:</b>	25 PSI	25 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	XR 100 02	XR 100 02
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN
<b>Nozzles/Row:</b>	6	6
<b>Boom Length, Unit:</b>	10 FT	10 FT
<b>Ground Speed, Unit:</b>	2.1 MPH	2.1 MPH
<b>Carrier:</b>	MEIGS	MEIGS
<b>Spray Volume, Unit:</b>	20 gal/ac	20 gal/ac
<b>Mix Size, Unit:</b>	2.5 liters	2.5 liters
<b>Propellant:</b>	CO2	CO2

# Purdue University

## Postemergence Weed Control in Popcorn with DPX-UKU48

Trial ID: 14S-THP-CTP-28      Protocol ID: 14S-THP-CTP-28  
 Location: Throckmorton      Study Director:  
 Project ID: USA-14-011      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	Other Rate	Other Rate	Growth Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Popcom 1 Untreated Check											101	507	801	805
2	Popcom 1											103	305	601	903
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a			POSPOS B	2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a			POSPOS B	2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a			POSPOS B	2-4" w <V6 c	0.234 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
3	Popcom 1											105	307	707	1001
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a			POSPOS B	2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a			POSPOS B	2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a			POSPOS B	2-4" w <V6 c	0.234 g/mx				
	Atrazine		4 LBA/GAL	F	1 lb ai/a	1 qt/a			POSPOS B	2-4" w <V6 c	31.25 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
4	Popcom 1											107	407	703	901
	Cinch ATZ (5.5 SC)		5.5 LBA/GAL	SC	2.75 lb ai/a	2 qt/a			ATPLAN A		62.49 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a			POSPOS B	2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a			POSPOS B	2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a			POSPOS B	2-4" w <V6 c	0.234 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
5	Popcom 1											201	505	607	1005
	Cinch ATZ (5.5 SC)		5.5 LBA/GAL	SC	2.75 lb ai/a	2 qt/a			ATPLAN A		62.49 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.58 oz ai/a	0.77 oz/a			POSPOS B	2-4" w <V6 c	0.724 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.47 oz ai/a	2.94 oz/a			POSPOS B	2-4" w <V6 c	2.752 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.148 oz ai/a	0.296 oz/a			POSPOS B	2-4" w <V6 c	0.2771 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
6	Popcom 1											203	405	705	1007
	Cinch ATZ (5.5 SC)		5.5 LBA/GAL	SC	2.75 lb ai/a	2 qt/a			ATPLAN A		62.49 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a			POSPOS B	2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a			POSPOS B	2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a			POSPOS B	2-4" w <V6 c	0.234 g/mx				
	Atrazine		4 LBA/GAL	F	1 lb ai/a	1 qt/a			POSPOS B	2-4" w <V6 c	31.25 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
7	Popcom 1											205	501	803	1003
	Cinch ATZ (5.5 SC)		5.5 LBA/GAL	SC	2.06 lb ai/a	1.5 qt/a			ATPLAN A		46.81 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a			POSPOS B	2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a			POSPOS B	2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a			POSPOS B	2-4" w <V6 c	0.234 g/mx				
	Cinch ATZ (5.5 SC)		5.5 LBA/GAL	SC	1.38 lb ai/a	1 qt/a			POSPOS B	2-4" w <V6 c	31.36 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
8	Popcom 1											207	503	605	905
	Cinch ATZ (5.5 SC)		5.5 LBA/GAL	SC	2.75 lb ai/a	2 qt/a			ATPLAN A		62.49 ml/mx				
	Laudis (3.5 SL)		3.5 LB/GAL	SC	1.31 oz ai/a	3 oz/a			POSPOS B	2-4" w <V6 c	2.924 ml/mx				
	Atrazine		4 LBA/GAL	F	1 lb ai/a	1 qt/a			POSPOS B	2-4" w <V6 c	31.25 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
9	Popcom 1											301	403	701	807
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a			POSPOS B	2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a			POSPOS B	2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a			POSPOS B	2-4" w <V6 c	0.234 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v			POSPOS B	2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid		3.4 LB/GAL	SL	2 lb ai/a	2.35 qt/a			POSPOS B	2-4" w <V6 c	73.52 ml/mx				

# Purdue University

Reps: 4 Plots: 10 by 30 feet  
 Spray vol: 20 gal/ac Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
10	Popcom 1											303	401	603	907
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a		POSPOS B		2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a		POSPOS B		2-4" w <V6 c	2.34 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
11	Popcom 2 Untreated Check											102	508	802	806
12	Popcom 2											104	306	602	904
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a		POSPOS B		2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a		POSPOS B		2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a		POSPOS B		2-4" w <V6 c	0.234 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				
13	Popcom 2											106	308	708	1002
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a		POSPOS B		2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a		POSPOS B		2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a		POSPOS B		2-4" w <V6 c	0.234 g/mx				
	Atrazine	4 LBA/GAL	F		1 lb ai/a	1 qt/a		POSPOS B		2-4" w <V6 c	31.25 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				
14	Popcom 2											108	408	704	902
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL	SC		2.75 lb ai/a	2 qt/a		ATPLAN A			62.49 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a		POSPOS B		2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a		POSPOS B		2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a		POSPOS B		2-4" w <V6 c	0.234 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				
15	Popcom 2											202	506	608	1006
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL	SC		2.75 lb ai/a	2 qt/a		ATPLAN A			62.49 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.58 oz ai/a	0.77 oz/a		POSPOS B		2-4" w <V6 c	0.724 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.47 oz ai/a	2.94 oz/a		POSPOS B		2-4" w <V6 c	2.752 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.148 oz ai/a	0.296 oz/a		POSPOS B		2-4" w <V6 c	0.2771 g/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				
16	Popcom 2											204	406	706	1008
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL	SC		2.75 lb ai/a	2 qt/a		ATPLAN A			62.49 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a		POSPOS B		2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a		POSPOS B		2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a		POSPOS B		2-4" w <V6 c	0.234 g/mx				
	Atrazine	4 LBA/GAL	F		1 lb ai/a	1 qt/a		POSPOS B		2-4" w <V6 c	31.25 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				
17	Popcom 2											206	502	804	1004
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL	SC		2.06 lb ai/a	1.5 qt/a		ATPLAN A			46.81 ml/mx				
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a	0.653 oz/a		POSPOS B		2-4" w <V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a	2.5 oz/a		POSPOS B		2-4" w <V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a	0.25 oz/a		POSPOS B		2-4" w <V6 c	0.234 g/mx				
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL	SC		1.38 lb ai/a	1 qt/a		POSPOS B		2-4" w <V6 c	31.36 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				
18	Popcom 2											208	504	606	906
	Cinch ATZ (5.5 SC)	5.5 LBA/GAL	SC		2.75 lb ai/a	2 qt/a		ATPLAN A			62.49 ml/mx				
	Laudis (3.5 SL)	3.5 LB/GAL	SC		1.31 oz ai/a	3 oz/a		POSPOS B		2-4" w <V6 c	2.924 ml/mx				
	Atrazine	4 LBA/GAL	F		1 lb ai/a	1 qt/a		POSPOS B		2-4" w <V6 c	31.25 ml/mx				
	COC	100 %		SL	1 % v/v	1 % v/v		POSPOS B		2-4" w <V6 c	25.0 ml/mx				
	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a	2.35 qt/a		POSPOS B		2-4" w <V6 c	73.52 ml/mx				

# Purdue University

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
19	Popcom 2													302	404	702	808
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a		0.653 oz/a			POSPOS B	2-4" w	<V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a		2.5 oz/a			POSPOS B	2-4" w	<V6 c	2.34 g/mx				
	Isoxadifen (50 WG)	50 %		WG	0.125 oz ai/a		0.25 oz/a			POSPOS B	2-4" w	<V6 c	0.234 g/mx				
	COC	100 %		SL	1 % v/v		1 % v/v			POSPOS B	2-4" w	<V6 c	25.0 ml/mx				
20	AMS - Liquid	3.4 LB/GAL		SL	2 lb ai/a		2.35 qt/a			POSPOS B	2-4" w	<V6 c	73.52 ml/mx				
	Popcom 2													304	402	604	908
	Nicosulfuron (75 WG)	75 %		WG	0.49 oz ai/a		0.653 oz/a			POSPOS B	2-4" w	<V6 c	0.6116 g/mx				
	Mesotrione (50 WG)	50 %		WG	1.25 oz ai/a		2.5 oz/a			POSPOS B	2-4" w	<V6 c	2.34 g/mx				
	COC	100 %		SL	1 % v/v		1 % v/v			POSPOS B	2-4" w	<V6 c	25.0 ml/mx				

Sort Order: Treatment

# Purdue University

## Postemergence Weed Control in Popcorn with DPX-UKU48

Trial ID: 14S-THP-CTP-28      Protocol ID: 14S-THP-CTP-28  
 Location: Throckmorton      Study Director:  
 Project ID: USA-14-011      Investigator: Dr. Bill Johnson  
 Sponsor Contact: DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	CHEAL	ABUTH							
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium ai>	Abutilon theop>							
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf							
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-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS				
Rating Unit	%	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1	1			
Crop Stage Majority											
Pest Stage Majority	3	10	3	4							
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2							
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6	34 6			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	1	2	3	4	5	6	7
1 Popcorn 1				101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Untreated Check				507	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				801	0.0	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	0.0
				Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Popcorn 1				103	90.0	60.0	75.0	99.0	0.0	0.0	3.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		305	87.0	55.0	70.0	87.0	0.0	0.0	3.0
Mesotrione (50 WG)	1.25 oz ai/a	B		601	85.0	75.0	50.0	90.0	5.0	5.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		903	90.0	75.0	60.0	99.0	7.0	0.0	7.0
COC	1 % v/v	B									
				Mean =	88.0	66.3	63.8	93.8	3.0	1.3	3.3
3 Popcorn 1				105	93.0	65.0	50.0	99.0	10.0	0.0	15.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		307	85.0	50.0	60.0	90.0	5.0	0.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B		707	95.0	60.0	70.0	99.0	0.0	0.0	7.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		1001	85.0	65.0	50.0	99.0	10.0	0.0	7.0
Atrazine	1 lb ai/a	B									
COC	1 % v/v	B									
				Mean =	89.5	60.0	57.5	96.8	6.3	0.0	8.5
4 Popcorn 1				107	99.0	65.0	99.0	85.0	3.0	0.0	3.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		407	99.0	65.0	99.0	99.0	5.0	0.0	3.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		703	99.0	83.0	99.0	99.0	3.0	0.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B		901	95.0	85.0	99.0	99.0	10.0	3.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B									
COC	1 % v/v	B									
				Mean =	98.0	74.5	99.0	95.5	5.3	0.8	3.5

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Abutilon theophrasti			
Pest Name	Giant foxtail	Giant ragweed	Common lambsquarters	velvetleaf			
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-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS
Rating Unit	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority							
Pest Stage Majority	3	10	3	4			
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2			
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate	Unit Code Plot	1	2	3	4	5
5 Popcorn 1		201	99.0	90.0	99.0	85.0	10.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 505	99.0	83.0	99.0	94.0	0.0
Nicosulfuron (75 WG)	0.58 oz ai/a	B 607	99.0	75.0	99.0	99.0	3.0
Mesotrione (50 WG)	1.47 oz ai/a	B 1005	95.0	86.0	99.0	96.0	5.0
Isoxadifen (50 WG)	0.148 oz ai/a	B					0.0
COC	1 % v/v	B					0.0
Mean =			98.0	83.5	99.0	93.5	4.5
6 Popcorn 1		203	99.0	99.0	99.0	87.0	0.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 405	99.0	83.0	99.0	99.0	10.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 705	99.0	84.0	90.0	99.0	7.0
Mesotrione (50 WG)	1.25 oz ai/a	B 1007	99.0	83.0	99.0	99.0	7.0
Isoxadifen (50 WG)	0.125 oz ai/a	B					0.0
Atrazine	1 lb ai/a	B					0.0
COC	1 % v/v	B					0.0
Mean =			99.0	87.3	96.8	96.0	6.0
7 Popcorn 1		205	99.0	92.0	99.0	99.0	0.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A 501	99.0	87.0	99.0	94.0	5.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 803	99.0	90.0	99.0	99.0	3.0
Mesotrione (50 WG)	1.25 oz ai/a	B 1003	99.0	95.0	99.0	99.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B					0.0
Cinch ATZ (5.5 SC)	1.38 lb ai/a	B					0.0
COC	1 % v/v	B					0.0
Mean =			99.0	91.0	99.0	97.8	2.0
8 Popcorn 1		207	99.0	86.0	99.0	87.0	0.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 503	99.0	93.0	99.0	99.0	0.0
Laudis (3.5 SL)	1.31 oz ai/a	B 605	99.0	86.0	99.0	99.0	3.0
Atrazine	1 lb ai/a	B 905	99.0	85.0	99.0	99.0	0.0
COC	1 % v/v	B					0.0
Mean =			99.0	87.5	99.0	96.0	0.8
9 Popcorn 1		301	80.0	70.0	60.0	85.0	15.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 403	93.0	70.0	50.0	99.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 701	87.0	70.0	80.0	93.0	10.0
Isoxadifen (50 WG)	0.125 oz ai/a	B 807	87.0	60.0	40.0	99.0	5.0
COC	1 % v/v	B					0.0
AMS - Liquid	2 lb ai/a	B					0.0
Mean =			86.8	67.5	57.5	94.0	7.5



# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	CHEAL	ABUTH							
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Abutilon theophrasti							
Pest Name	Giant foxtail	Giant ragweed	Common lambsquarters	velvetleaf							
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-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS				
Rating Unit	%	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority											
Pest Stage Majority	3	10	3	4							
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2							
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6				
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1				
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1				
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	1	2	3	4	5	6	7
10 Popcorn 1				303	90.0	70.0	75.0	90.0	3.0	0.0	7.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B	401		93.0	50.0	80.0	99.0	3.0	0.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B	603		85.0	80.0	75.0	90.0	3.0	0.0	7.0
COC	1 % v/v	B	907		90.0	40.0	50.0	99.0	0.0	0.0	0.0
			Mean =		89.5	60.0	70.0	94.5	2.3	0.0	4.8
11 Popcorn 2				102					0.0	0.0	0.0
Untreated Check				508					0.0	0.0	0.0
				802					0.0	0.0	0.0
				806					0.0	0.0	0.0
			Mean =		.	.	.	.	0.0	0.0	0.0
12 Popcorn 2				104					0.0	0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B	306						0.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B	602						5.0	10.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B	904						0.0	0.0	0.0
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
			Mean =		.	.	.	.	1.3	2.5	0.0
13 Popcorn 2				106					3.0	0.0	5.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B	308						0.0	0.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B	708						3.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B	1002						3.0	0.0	0.0
Atrazine	1 lb ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
			Mean =		.	.	.	.	2.3	0.0	3.3
14 Popcorn 2				108					5.0	0.0	0.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A	408						3.0	0.0	3.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B	704						0.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B	902						5.0	0.0	5.0
Isoxadifen (50 WG)	0.125 oz ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
			Mean =		.	.	.	.	3.3	0.0	2.0

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	ABUTH			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>			
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf			
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-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS
Rating Unit	%	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority							
Pest Stage Majority	3	10	3	4			
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2			
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate	Unit	Code	Plot	1	2	3
15 Popcorn 2				202			
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		506			
Nicosulfuron (75 WG)	0.58 oz ai/a	B		608			
Mesotrione (50 WG)	1.47 oz ai/a	B		1006			
Isoxadifen (50 WG)	0.148 oz ai/a	B					
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
Mean =							
16 Popcorn 2				204			
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		406			
Nicosulfuron (75 WG)	0.49 oz ai/a	B		706			
Mesotrione (50 WG)	1.25 oz ai/a	B		1008			
Isoxadifen (50 WG)	0.125 oz ai/a	B					
Atrazine	1 lb ai/a	B					
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
Mean =							
17 Popcorn 2				206			
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A		502			
Nicosulfuron (75 WG)	0.49 oz ai/a	B		804			
Mesotrione (50 WG)	1.25 oz ai/a	B		1004			
Isoxadifen (50 WG)	0.125 oz ai/a	B					
Cinch ATZ (5.5 SC)	1.38 lb ai/a	B					
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
Mean =							
18 Popcorn 2				208			
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		504			
Laudis (3.5 SL)	1.31 oz ai/a	B		606			
Atrazine	1 lb ai/a	B		906			
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
Mean =							

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	CHEAL	ABUTH							
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>							
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf							
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-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS				
Rating Unit	%	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority											
Pest Stage Majority	3	10	3	4							
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2							
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6				
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1				
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1				
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	1	2	3	4	5	6	7
19 Popcorn 2				302					3.0	0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		404					5.0	0.0	3.0
Mesotrione (50 WG)	1.25 oz ai/a	B		702					7.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		808					5.0	0.0	0.0
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
				Mean =	.	.	.	.	5.0	0.0	1.5
20 Popcorn 2				304					0.0	0.0	5.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		402					0.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B		604					3.0	0.0	0.0
COC	1 % v/v	B		908					0.0	0.0	3.0
				Mean =	.	.	.	.	0.8	0.0	2.0

# Purdue University

Pest Type			W Weed		W Weed		W Weed				
Pest Code			SETFA		AMBTR		CHEAL				
Pest Scientific Name			Setaria faberi		Ambrosia trifi>		Chenopodium al>				
Pest Name			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-9-2014		Jun-9-2014		Jun-17-2014		Jun-17-2014		Jun-17-2014		
Rating Type	PHYLMA		PHYNEC		CONTRO		CONTRO		PHYSTU		
Rating Unit	%		%		%		%		%		
Sample Size, Unit	1	PLOT	1	PLOT	1	PLOT	1	PLOT	1	PLOT	
Number of Subsamples	1		1		1		1		1		
Crop Stage Majority									V6		
Pest Stage Majority					12		30		7		
Pest Density, Unit					8 FT2		7 YD2		5 FT2		
Days After First/Last Applic.	34 6		34 6		42 14		42 14		42 14		
Plant-Eval Interval	35 DP-1		35 DP-1		43 DP-1		43 DP-1		43 DP-1		
Days After Emergence	27 DE-1		27 DE-1		35 DE-1		35 DE-1		35 DE-1		
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	8	9	10	11	12	13	14
1 Popcorn 1				101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Untreated Check				507	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				801	0.0	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	0.0
				Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Popcorn 1				103	7.0	0.0	90.0	83.0	85.0	0.0	3.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		305	5.0	0.0	75.0	70.0	65.0	0.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B		601	7.0	0.0	90.0	86.0	80.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		903	10.0	0.0	94.0	85.0	90.0	0.0	7.0
COC	1 % v/v	B									
				Mean =	7.3	0.0	87.3	81.0	80.0	0.0	4.5
3 Popcorn 1				105	5.0	7.0	90.0	70.0	89.0	10.0	9.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		307	8.0	0.0	87.0	85.0	99.0	3.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B		707	7.0	0.0	90.0	75.0	99.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		1001	10.0	0.0	92.0	83.0	80.0	0.0	3.0
Atrazine	1 lb ai/a	B									
COC	1 % v/v	B									
				Mean =	7.5	1.8	89.8	78.3	91.8	3.3	5.0
4 Popcorn 1				107	5.0	0.0	99.0	90.0	99.0	3.0	5.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		407	0.0	0.0	99.0	87.0	99.0	5.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		703	5.0	0.0	99.0	92.0	99.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B		901	5.0	3.0	97.0	86.0	99.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B									
COC	1 % v/v	B									
				Mean =	3.8	0.8	98.5	88.8	99.0	2.0	2.0

# Purdue University

Pest Type			W Weed	W Weed	W Weed				
Pest Code			SETFA	AMBTR	CHEAL				
Pest Scientific Name			Setaria faberi	Ambrosia trifi>	Chenopodium al>				
Pest Name			Giant foxtail	Giant ragweed	Common lambsqu>				
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	Jun-9-2014	Jun-9-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	
Rating Type	PHYLMA	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1		1		1		1		
Crop Stage Majority							V6		
Pest Stage Majority			12		30		7		
Pest Density, Unit			8 FT2		7 YD2		5 FT2		
Days After First/Last Applic.	34 6		42 14		42 14		42 14		
Plant-Eval Interval	35 DP-1		43 DP-1		43 DP-1		43 DP-1		
Days After Emergence	27 DE-1		35 DE-1		35 DE-1		35 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit Code Plot	8	9	10	11	12	13	14
5 Popcorn 1		201	5.0	0.0	99.0	90.0	99.0	0.0	7.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 505	5.0	3.0	99.0	94.0	99.0	5.0	5.0
Nicosulfuron (75 WG)	0.58 oz ai/a	B 607	10.0	0.0	99.0	87.0	99.0	0.0	7.0
Mesotrione (50 WG)	1.47 oz ai/a	B 1005	10.0	0.0	99.0	89.0	99.0	3.0	3.0
Isoxadifen (50 WG)	0.148 oz ai/a	B							
COC	1 % v/v	B							
Mean =			7.5	0.8	99.0	90.0	99.0	2.0	5.5
6 Popcorn 1		203	7.0	0.0	99.0	99.0	99.0	0.0	7.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 405	5.0	3.0	99.0	86.0	99.0	0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 705	10.0	0.0	99.0	87.0	99.0	5.0	6.0
Mesotrione (50 WG)	1.25 oz ai/a	B 1007	5.0	0.0	99.0	86.0	99.0	5.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B							
Atrazine	1 lb ai/a	B							
COC	1 % v/v	B							
Mean =			6.8	0.8	99.0	89.5	99.0	2.5	3.3
7 Popcorn 1		205	5.0	0.0	99.0	97.0	99.0	0.0	5.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A 501	7.0	0.0	99.0	94.0	99.0	0.0	3.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 803	5.0	0.0	99.0	92.0	99.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 1003	10.0	0.0	99.0	95.0	99.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B							
Cinch ATZ (5.5 SC)	1.38 lb ai/a	B							
COC	1 % v/v	B							
Mean =			6.8	0.0	99.0	94.5	99.0	0.0	2.8
8 Popcorn 1		207	10.0	0.0	99.0	95.0	99.0	0.0	9.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 503	10.0	0.0	99.0	97.0	99.0	0.0	6.0
Laudis (3.5 SL)	1.31 oz ai/a	B 605	10.0	5.0	99.0	95.0	99.0	0.0	9.0
Atrazine	1 lb ai/a	B 905	7.0	0.0	96.0	93.0	99.0	0.0	6.0
COC	1 % v/v	B							
Mean =			9.3	1.3	98.3	95.0	99.0	0.0	7.5
9 Popcorn 1		301	10.0	3.0	93.0	87.0	99.0	0.0	5.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 403	7.0	0.0	92.0	83.0	99.0	0.0	4.0
Mesotrione (50 WG)	1.25 oz ai/a	B 701	5.0	0.0	99.0	86.0	99.0	0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B 807	5.0	0.0	87.0	84.0	99.0	3.0	0.0
COC	1 % v/v	B							
AMS - Liquid	2 lb ai/a	B							
Mean =			6.8	0.8	92.8	85.0	99.0	0.8	3.0

# Purdue University

Pest Type				W Weed	W Weed	W Weed					
Pest Code				SETFA	AMBTR	CHEAL					
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>					
Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>					
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	Jun-9-2014	Jun-9-2014		Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014		
Rating Type	PHYLMA	PHYNEC		CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA			
Rating Unit	%	%		%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT		1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1		1	1	1	1	1	1		
Crop Stage Majority							V6	V6			
Pest Stage Majority				12	30	7					
Pest Density, Unit				8 FT2	7 YD2	5 FT2					
Days After First/Last Applic.	34 6	34 6		42 14	42 14	42 14	42 14	42 14	42 14		
Plant-Eval Interval	35 DP-1	35 DP-1		43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1		
Days After Emergence	27 DE-1	27 DE-1		35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1		
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	8	9	10	11	12	13	14
10 Popcorn 1				303	5.0	5.0	94.0	83.0	85.0	0.0	9.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		401	7.0	0.0	87.0	65.0	70.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B		603	10.0	5.0	90.0	95.0	99.0	0.0	5.0
COC	1 % v/v	B		907	0.0	3.0	90.0	75.0	83.0	0.0	6.0
				Mean =	5.5	3.3	90.3	79.5	84.3	0.0	5.0
11 Popcorn 2				102	0.0	0.0				0.0	0.0
Untreated Check				508	0.0	0.0				0.0	0.0
				802	0.0	0.0				0.0	0.0
				806	0.0	0.0				0.0	0.0
				Mean =	0.0	0.0	.	.	.	0.0	0.0
12 Popcorn 2				104	0.0	0.0				0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		306	0.0	0.0				0.0	4.0
Mesotrione (50 WG)	1.25 oz ai/a	B		602	0.0	0.0				3.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		904	0.0	0.0				0.0	0.0
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
				Mean =	0.0	0.0	.	.	.	0.8	1.8
13 Popcorn 2				106	0.0	0.0				5.0	3.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		308	5.0	0.0				0.0	3.0
Mesotrione (50 WG)	1.25 oz ai/a	B		708	0.0	0.0				0.0	3.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		1002	5.0	0.0				0.0	3.0
Atrazine	1 lb ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
				Mean =	2.5	0.0	.	.	.	1.3	3.0
14 Popcorn 2				108	5.0	0.0				0.0	5.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		408	3.0	0.0				3.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		704	3.0	3.0				0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B		902	0.0	0.0				3.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
				Mean =	2.8	0.8	.	.	.	1.5	1.3

# Purdue University

Pest Type			W Weed	W Weed	W Weed						
Pest Code			SETFA	AMBTR	CHEAL						
Pest Scientific Name			Setaria faberi	Ambrosia trifi>	Chenopodium al>						
Pest Name			Giant foxtail	Giant ragweed	Common lambsqu>						
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	Jun-9-2014	Jun-9-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014			
Rating Type	PHYLMA	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYSTU	PHYLMA			
Rating Unit	%	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
Crop Stage Majority							V6	V6			
Pest Stage Majority			12	30	7						
Pest Density, Unit			8 FT2	7 YD2	5 FT2						
Days After First/Last Applic.	34 6	34 6	42 14	42 14	42 14	42 14	42 14	42 14			
Plant-Eval Interval	35 DP-1	35 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1			
Days After Emergence	27 DE-1	27 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1			
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	8	9	10	11	12	13	14
15 Popcorn 2				202	3.0	0.0				0.0	0.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		506	0.0	0.0				0.0	3.0
Nicosulfuron (75 WG)	0.58 oz ai/a	B		608	7.0	0.0				0.0	0.0
Mesotrione (50 WG)	1.47 oz ai/a	B		1006	5.0	0.0				5.0	3.0
Isoxadifen (50 WG)	0.148 oz ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
Mean =					3.8	0.0	.	.	.	1.3	1.5
16 Popcorn 2				204	3.0	5.0				0.0	3.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		406	7.0	0.0				3.0	4.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		706	5.0	0.0				5.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B		1008	5.0	0.0				0.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B									
Atrazine	1 lb ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
Mean =					5.0	1.3	.	.	.	2.0	3.0
17 Popcorn 2				206	7.0	0.0				0.0	4.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A		502	0.0	0.0				0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		804	0.0	0.0				0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B		1004	0.0	0.0				5.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B									
Cinch ATZ (5.5 SC)	1.38 lb ai/a	B									
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
Mean =					1.8	0.0	.	.	.	1.3	1.0
18 Popcorn 2				208	7.0	0.0				0.0	4.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		504	7.0	0.0				0.0	5.0
Laudis (3.5 SL)	1.31 oz ai/a	B		606	5.0	0.0				0.0	5.0
Atrazine	1 lb ai/a	B		906	5.0	0.0				0.0	0.0
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
Mean =					6.0	0.0	.	.	.	0.0	3.5

# Purdue University

Pest Type			W Weed	W Weed	W Weed						
Pest Code			SETFA	AMBTR	CHEAL						
Pest Scientific Name			Setaria faberi	Ambrosia trifi>	Chenopodium al>						
Pest Name			Giant foxtail	Giant ragweed	Common lambsqu>						
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	Jun-9-2014	Jun-9-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014		
Rating Type	PHYLMA	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYSTU	PHYLMA	PHYLMA		
Rating Unit	%	%	%	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1	1	1	1		
Crop Stage Majority						V6	V6				
Pest Stage Majority			12	30	7						
Pest Density, Unit			8 FT2	7 YD2	5 FT2						
Days After First/Last Applic.	34 6	34 6	42 14	42 14	42 14	42 14	42 14	42 14	42 14		
Plant-Eval Interval	35 DP-1	35 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1		
Days After Emergence	27 DE-1	27 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1		
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	Plot	8	9	10	11	12	13	14
19 Popcorn 2				302	0.0	0.0				3.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		404	0.0	3.0				0.0	3.0
Mesotrione (50 WG)	1.25 oz ai/a	B		702	3.0	0.0				0.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B		808	0.0	0.0				0.0	0.0
COC	1 % v/v	B									
AMS - Liquid	2 lb ai/a	B									
				Mean =	0.8	0.8	.	.	.	0.8	0.8
20 Popcorn 2				304	0.0	3.0				0.0	4.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B		402	0.0	0.0				0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B		604	0.0	5.0				3.0	4.0
COC	1 % v/v	B		908	0.0	0.0				0.0	0.0
				Mean =	0.0	2.0	.	.	.	0.8	2.0



# Purdue University

Pest Type	W Weed	W Weed	W Weed				
Pest Code	AMBTR	SETFA	CHEAL				
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium ai>				
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>				
Crop Code				ZEAMX	ZEAMX		
BBCB Scale				BCOR	BCOR		
Crop Scientific Name				Zea mays	Zea mays		
Crop Name				Corn	Corn		
Rating Date	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	GOOSEN		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1		
Crop Stage Majority	V8	V8	V8				
Pest Stage Majority	12-80	6-30	6-40				
Pest Density, Unit	2 FT2	6 FT2	2 YD2				
Days After First/Last Applic.	64 36	64 36	64 36	64 36	64 36		
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1		
Days After Emergence	57 DE-1	57 DE-1	57 DE-1	57 DE-1	57 DE-1		
Trt Treatment	Rate	Appl					
No. Name	Rate	Unit Code Plot	15	16	17	18	19
1 Popcorn 1		101	0.0	0.0	0.0	0.0	0.0
Untreated Check		507	0.0	0.0	0.0	0.0	0.0
		801	0.0	0.0	0.0	0.0	0.0
		805	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0
2 Popcorn 1		103	50.0	90.0	99.0	0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 305	50.0	75.0	99.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 601	99.0	50.0	85.0	5.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B 903	85.0	50.0	99.0	5.0	5.0
COC	1 % v/v	B					
		Mean =	71.0	66.3	95.5	2.5	1.3
3 Popcorn 1		105	50.0	20.0	99.0	5.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 307	90.0	30.0	99.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 707	30.0	90.0	99.0	7.0	7.0
Isoxadifen (50 WG)	0.125 oz ai/a	B 1001	90.0	30.0	99.0	10.0	7.0
Atrazine	1 lb ai/a	B					
COC	1 % v/v	B					
		Mean =	65.0	42.5	99.0	5.5	3.5
4 Popcorn 1		107	75.0	99.0	99.0	0.0	3.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 407	85.0	99.0	99.0	3.0	7.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 703	99.0	90.0	99.0	0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 901	99.0	95.0	99.0	5.0	7.0
Isoxadifen (50 WG)	0.125 oz ai/a	B					
COC	1 % v/v	B					
		Mean =	89.5	95.8	99.0	2.0	4.3

# Purdue University

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		
Crop Code				ZEAMX	ZEAMX
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays
Crop Name				Corn	Corn
Rating Date	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	GOOSEN
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V8	V8	V8		
Pest Stage Majority	12-80	6-30	6-40		
Pest Density, Unit	2 FT2	6 FT2	2 YD2		
Days After First/Last Applic.	64 36	64 36	64 36	64 36	64 36
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	57 DE-1	57 DE-1	57 DE-1	57 DE-1	57 DE-1
<b>Trt Treatment</b>	<b>Rate</b>	<b>Appl</b>			
<b>No. Name</b>	<b>Rate Unit</b>	<b>Code Plot</b>	<b>15</b>	<b>16</b>	<b>17</b>
5 Popcorn 1		201	99.0	99.0	99.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a A	505	98.0	99.0	99.0
Nicosulfuron (75 WG)	0.58 oz ai/a B	607	65.0	99.0	99.0
Mesotrione (50 WG)	1.47 oz ai/a B	1005	90.0	99.0	99.0
Isoxadifen (50 WG)	0.148 oz ai/a B				
COC	1 % v/v B				
<b>Mean =</b>			<b>88.0</b>	<b>99.0</b>	<b>99.0</b>
6 Popcorn 1		203	90.0	99.0	99.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a A	405	97.0	99.0	99.0
Nicosulfuron (75 WG)	0.49 oz ai/a B	705	95.0	99.0	99.0
Mesotrione (50 WG)	1.25 oz ai/a B	1007	60.0	99.0	99.0
Isoxadifen (50 WG)	0.125 oz ai/a B				
Atrazine	1 lb ai/a B				
COC	1 % v/v B				
<b>Mean =</b>			<b>85.5</b>	<b>99.0</b>	<b>99.0</b>
7 Popcorn 1		205	99.0	99.0	99.0
Cinch ATZ (5.5 SC)	2.06 lb ai/a A	501	96.0	99.0	99.0
Nicosulfuron (75 WG)	0.49 oz ai/a B	803	95.0	99.0	99.0
Mesotrione (50 WG)	1.25 oz ai/a B	1003	98.0	99.0	99.0
Isoxadifen (50 WG)	0.125 oz ai/a B				
Cinch ATZ (5.5 SC)	1.38 lb ai/a B				
COC	1 % v/v B				
<b>Mean =</b>			<b>97.0</b>	<b>99.0</b>	<b>99.0</b>
8 Popcorn 1		207	99.0	95.0	99.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a A	503	95.0	99.0	99.0
Laudis (3.5 SL)	1.31 oz ai/a B	605	99.0	98.0	99.0
Atrazine	1 lb ai/a B	905	98.0	80.0	99.0
COC	1 % v/v B				
<b>Mean =</b>			<b>97.8</b>	<b>93.0</b>	<b>99.0</b>
9 Popcorn 1		301	85.0	90.0	99.0
Nicosulfuron (75 WG)	0.49 oz ai/a B	403	40.0	70.0	99.0
Mesotrione (50 WG)	1.25 oz ai/a B	701	75.0	65.0	99.0
Isoxadifen (50 WG)	0.125 oz ai/a B	807	55.0	85.0	99.0
COC	1 % v/v B				
AMS - Liquid	2 lb ai/a B				
<b>Mean =</b>			<b>63.8</b>	<b>77.5</b>	<b>99.0</b>

# Purdue University

Pest Type		W Weed	W Weed	W Weed			
Pest Code		AMBTR	SETFA	CHEAL			
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>			
Pest Name		Giant ragweed	Giant foxtail	Common lambsqu>			
Crop Code					ZEAMX	ZEAMX	
BBCH Scale					BCOR	BCOR	
Crop Scientific Name					Zea mays	Zea mays	
Crop Name					Corn	Corn	
Rating Date		Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014	
Rating Type		CONTRO	CONTRO	CONTRO	PHYSTU	GOOSEN	
Rating Unit		%	%	%	%	%	
Sample Size, Unit		1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples		1	1	1	1	1	
Crop Stage Majority		V8	V8	V8			
Pest Stage Majority		12-80	6-30	6-40			
Pest Density, Unit		2 FT2	6 FT2	2 YD2			
Days After First/Last Applic.		64 36	64 36	64 36	64 36	64 36	
Plant-Eval Interval		65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1	
Days After Emergence		57 DE-1	57 DE-1	57 DE-1	57 DE-1	57 DE-1	
Trt Treatment	Rate	Appl					
No. Name	Rate	Unit Code Plot	15	16	17	18	19
10 Popcorn 1		303	85.0	40.0	90.0	5.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 401	50.0	90.0	99.0	10.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 603	99.0	50.0	99.0	0.0	5.0
COC	1 % v/v	B 907	20.0	80.0	80.0	0.0	0.0
		Mean =	63.5	65.0	92.0	3.8	1.3
11 Popcorn 2		102				0.0	0.0
Untreated Check		508				0.0	0.0
		802				0.0	0.0
		806				0.0	0.0
		Mean =	.	.	.	0.0	0.0
12 Popcorn 2		104				0.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 306				3.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 602				0.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B 904				0.0	0.0
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
		Mean =	.	.	.	0.8	0.0
13 Popcorn 2		106				5.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 308				0.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B 708				3.0	10.0
Isoxadifen (50 WG)	0.125 oz ai/a	B 1002				5.0	0.0
Atrazine	1 lb ai/a	B					
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
		Mean =	.	.	.	3.3	2.5
14 Popcorn 2		108				2.0	0.0
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A 408				0.0	15.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B 704				0.0	10.0
Mesotrione (50 WG)	1.25 oz ai/a	B 902				0.0	5.0
Isoxadifen (50 WG)	0.125 oz ai/a	B					
COC	1 % v/v	B					
AMS - Liquid	2 lb ai/a	B					
		Mean =	.	.	.	0.5	7.5

# Purdue University

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL		
Pest Scientific Name	Ambrosia trif>	Setaria faberi	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		
Crop Code				ZEAMX	ZEAMX
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays
Crop Name				Corn	Corn
Rating Date	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014	Jul-9-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	GOOSEN
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V8	V8	V8		
Pest Stage Majority	12-80	6-30	6-40		
Pest Density, Unit	2 FT2	6 FT2	2 YD2		
Days After First/Last Applic.	64 36	64 36	64 36	64 36	64 36
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	57 DE-1	57 DE-1	57 DE-1	57 DE-1	57 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	Plot	
15 Popcorn 2				202	
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		506	
Nicosulfuron (75 WG)	0.58 oz ai/a	B		608	
Mesotrione (50 WG)	1.47 oz ai/a	B		1006	
Isoxadifen (50 WG)	0.148 oz ai/a	B			
COC	1 % v/v	B			
AMS - Liquid	2 lb ai/a	B			
Mean =				.	.
16 Popcorn 2				204	
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		406	
Nicosulfuron (75 WG)	0.49 oz ai/a	B		706	
Mesotrione (50 WG)	1.25 oz ai/a	B		1008	
Isoxadifen (50 WG)	0.125 oz ai/a	B			
Atrazine	1 lb ai/a	B			
COC	1 % v/v	B			
AMS - Liquid	2 lb ai/a	B			
Mean =				.	.
17 Popcorn 2				206	
Cinch ATZ (5.5 SC)	2.06 lb ai/a	A		502	
Nicosulfuron (75 WG)	0.49 oz ai/a	B		804	
Mesotrione (50 WG)	1.25 oz ai/a	B		1004	
Isoxadifen (50 WG)	0.125 oz ai/a	B			
Cinch ATZ (5.5 SC)	1.38 lb ai/a	B			
COC	1 % v/v	B			
AMS - Liquid	2 lb ai/a	B			
Mean =				.	.
18 Popcorn 2				208	
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		504	
Laudis (3.5 SL)	1.31 oz ai/a	B		606	
Atrazine	1 lb ai/a	B		906	
COC	1 % v/v	B			
AMS - Liquid	2 lb ai/a	B			
Mean =				.	.

# Purdue University

Pest Type	W Weed		W Weed		W Weed			
Pest Code	AMBTR		SETFA		CHEAL			
Pest Scientific Name	Ambrosia trif>		Setaria faberi		Chenopodium al>			
Pest Name	Giant ragweed		Giant foxtail		Common lambsqu>			
Crop Code							ZEAMX	
BBCH Scale							BCOR	
Crop Scientific Name							Zea mays	
Crop Name							Corn	
Rating Date	Jul-9-2014		Jul-9-2014		Jul-9-2014		Jul-9-2014	
Rating Type	CONTRO		CONTRO		CONTRO		PHYSTU	
Rating Unit	%		%		%		%	
Sample Size, Unit	1 PLOT		1 PLOT		1 PLOT		1 PLOT	
Number of Subsamples	1		1		1		1	
Crop Stage Majority	V8		V8		V8		V8	
Pest Stage Majority	12-80		6-30		6-40		6-40	
Pest Density, Unit	2 FT2		6 FT2		2 YD2		64 36	
Days After First/Last Applic.	64 36		64 36		64 36		64 36	
Plant-Eval Interval	65 DP-1		65 DP-1		65 DP-1		65 DP-1	
Days After Emergence	57 DE-1		57 DE-1		57 DE-1		57 DE-1	
Trt Treatment	Rate Appl		Rate Appl		Rate Appl		Rate Appl	
No. Name	Rate	Unit Code Plot	15	16	17	18	19	
19 Popcorn 2			302				3.0	0.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B	404				5.0	5.0
Mesotrione (50 WG)	1.25 oz ai/a	B	702				0.0	0.0
Isoxadifen (50 WG)	0.125 oz ai/a	B	808				3.0	5.0
COC	1 % v/v	B						
AMS - Liquid	2 lb ai/a	B						
			Mean =	.	.	.	2.8	2.5
20 Popcorn 2			304				0.0	5.0
Nicosulfuron (75 WG)	0.49 oz ai/a	B	402				5.0	0.0
Mesotrione (50 WG)	1.25 oz ai/a	B	604				2.0	0.0
COC	1 % v/v	B	908				7.0	0.0
			Mean =	.	.	.	3.5	1.3

# Purdue University

## Postemergence Weed Control in Popcorn with DPX-UKU48

Trial ID: 14S-THP-CTP-28      Protocol ID: 14S-THP-CTP-28  
 Location: Throckmorton      Study Director:  
 Project ID: USA-14-011      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  
 PHYSTU = phytotoxicity - stunting  
 PHYBLE = phytotoxicity - bleaching  
 PHYNLS = phytotoxicity - necrosis, leaf spot  
 PHYLMA = phytotoxicity - leaf malformation  
 PHYNEC = phytotoxicity - necrosis /burn  
 GOOSEN = goosenecking

### Rating Unit

% = percent

PLOT = total plot

### Pest Stage Majority

10 = G, M ☐ First true leaf emerged from coleoptile; D ☐ Cotyledons completely unfolded; P ☐ First leaves separated  
 12 = 2 true leaves, leaf pairs or whorls unfolded  
 30 = Beginning of stem elongation; G ☐ Beginning of shooting

FT2 = per square foot

YD2 = per square yard

### Plant-Eval Interval

35 DP-1 = 1 ZEAME May-5-2014  
 43 DP-1 = 1 ZEAME May-5-2014  
 65 DP-1 = 1 ZEAME May-5-2014

# Purdue University

## Postemergence Weed Control in Popcorn with DPX-UKU48

Trial ID: 14S-THP-CTP-28      Protocol ID: 14S-THP-CTP-28  
 Location: Throckmorton      Study Director:  
 Project ID: USA-14-011      Investigator: Dr. Bill Johnson  
 Sponsor Contact: DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL	ABUTH					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>					
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf					
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	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS	PHYLMA	
Rating Unit	%	%	%	%	%	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1	1	1	1	
Crop Stage Majority									
Pest Stage Majority	3	10	3	4					
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2					
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6	34 6	
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	
Trt Treatment									
No. Name	1	2	3	4	5	6	7	8	
1 Popcorn 1 Untreated Check	0.0 c	0.0 c	0.0 c	0.0 b	0.0 a	0.0 a	0.0 d	0.0 e	
2 Popcorn 1 Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B COC 1 % v/v B	88.0 b	66.3 b	63.8 b	93.8 a	3.0 a	1.3 a	3.3 bcd	7.3 ab	
3 Popcorn 1 Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B Atrazine 1 lb ai/a B COC 1 % v/v B	89.5 b	60.0 b	57.5 b	96.8 a	6.3 a	0.0 a	8.5 a	7.5 ab	
4 Popcorn 1 Cinch ATZ (5.5 SC) 2.75 lb ai/a A Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B COC 1 % v/v B	98.0 a	74.5 ab	99.0 a	95.5 a	5.3 a	0.8 a	3.5 bcd	3.8 b-e	
5 Popcorn 1 Cinch ATZ (5.5 SC) 2.75 lb ai/a A Nicosulfuron (75 WG) 0.58 oz ai/a B Mesotrione (50 WG) 1.47 oz ai/a B Isoxadifen (50 WG) 0.148 oz ai/a B COC 1 % v/v B	98.0 a	83.5 a	99.0 a	93.5 a	4.5 a	2.5 a	4.5 a-d	7.5 ab	
6 Popcorn 1 Cinch ATZ (5.5 SC) 2.75 lb ai/a A Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B Atrazine 1 lb ai/a B COC 1 % v/v B	99.0 a	87.3 a	96.8 a	96.0 a	6.0 a	0.0 a	6.8 ab	6.8 abc	

Means followed by same letter do not significantly differ (P=0.05, 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							
Pest Code	SETFA	AMBTR	CHEAL	ABUTH							
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>							
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	velvetleaf							
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	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014	Jun-9-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYBLE	PHYNLS	PHYLMA			
Rating Unit	%	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1	1			
Crop Stage Majority											
Pest Stage Majority	3	10	3	4							
Pest Density, Unit	8 FT2	4 YD2	5 FT2	2 YD2							
Days After First/Last Applic.	34 6	34 6	34 6	34 6	34 6	34 6	34 6	34 6			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7	8
20 Popcorn 2								0.8 a	0.0 a	2.0 bcd	0.0 e
Nicosulfuron (75 WG)	0.49 oz ai/a	B									
Mesotrione (50 WG)	1.25 oz ai/a	B									
COC	1 % v/v	B									
LSD (P=.05)	4.26			12.52	11.97	6.86	4.80	3.43	3.08	3.21	
Standard Deviation	2.94			8.63	8.25	4.73	3.40	2.42	2.18	2.27	
CV	3.47			12.74	11.13	5.52	106.52	404.11	71.12	54.3	
Bartlett's X2	5.772			13.415	4.539	3.238	23.612	8.952	13.513	8.947	
P(Bartlett's X2)	0.329			0.098	0.338	0.919	0.098	0.111	0.563	0.88	
Replicate F	0.390			1.237	1.423	4.093	0.626	1.582	0.340	0.425	
Replicate Prob(F)	0.7613			0.3155	0.2578	0.0162	0.6014	0.2037	0.7965	0.7359	
Treatment F	423.037			37.695	59.771	162.653	2.079	0.825	6.384	7.189	
Treatment Prob(F)	0.0001			0.0001	0.0001	0.0001	0.0175	0.6691	0.0001	0.0001	

# Purdue University

Pest Type		W Weed	W Weed	W Weed		W Weed	W Weed		W Weed	W Weed	
Pest Code		SETFA	AMBTR	CHEAL		AMBTR	SETFA		AMBTR	SETFA	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>		Ambrosia trifi>	Setaria faberi		Ambrosia trifi>	Setaria faberi	
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>		Giant ragweed	Giant foxtail		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-9-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jul-9-2014	Jun-17-2014	Jul-9-2014	
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	%	%	%	%	%	
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Number of Subsamples	1	1	1	1	1	1	1	1	1	1	
Crop Stage Majority					V6	V6	V8	V8	V8	V8	
Pest Stage Majority		12	30	7			12-80	6-30			
Pest Density, Unit		8 FT2	7 YD2	5 FT2			2 FT2	6 FT2			
Days After First/Last Applic.	34 6	42 14	42 14	42 14	42 14	42 14	42 14	64 36	42 14	64 36	
Plant-Eval Interval	35 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	65 DP-1	43 DP-1	65 DP-1	
Days After Emergence	27 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	57 DE-1	35 DE-1	57 DE-1	
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	9	10	11	12	13	14	15	16
1 Popcorn 1 Untreated Check				0.0 a	0.0 c	0.0 c	0.0 d	0.0 a	0.0 c	0.0 b	0.0 c
2 Popcorn 1 Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B COC 1 % v/v B				0.0 a	87.3 b	81.0 b	80.0 c	0.0 a	4.5 abc	71.0 a	66.3 ab
3 Popcorn 1 Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B Atrazine 1 lb ai/a B COC 1 % v/v B				1.8 a	89.8 b	78.3 b	91.8 ab	3.3 a	5.0 abc	65.0 a	42.5 b
4 Popcorn 1 Cinch ATZ (5.5 SC) 2.75 lb ai/a A Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B COC 1 % v/v B				0.8 a	98.5 a	88.8 ab	99.0 a	2.0 a	2.0 bc	89.5 a	95.8 a
5 Popcorn 1 Cinch ATZ (5.5 SC) 2.75 lb ai/a A Nicosulfuron (75 WG) 0.58 oz ai/a B Mesotrione (50 WG) 1.47 oz ai/a B Isoxadifen (50 WG) 0.148 oz ai/a B COC 1 % v/v B				0.8 a	99.0 a	90.0 ab	99.0 a	2.0 a	5.5 ab	88.0 a	99.0 a
6 Popcorn 1 Cinch ATZ (5.5 SC) 2.75 lb ai/a A Nicosulfuron (75 WG) 0.49 oz ai/a B Mesotrione (50 WG) 1.25 oz ai/a B Isoxadifen (50 WG) 0.125 oz ai/a B Atrazine 1 lb ai/a B COC 1 % v/v B				0.8 a	99.0 a	89.5 ab	99.0 a	2.5 a	3.3 abc	85.5 a	99.0 a





# Purdue University

Pest Type		W Weed	W Weed	W Weed			W Weed	W Weed			
Pest Code		SETFA	AMBTR	CHEAL			AMBTR	SETFA			
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>			Ambrosia trifi>	Setaria faberi			
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>			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-9-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jun-17-2014	Jul-9-2014	Jul-9-2014			
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1	1	1	1			
Crop Stage Majority					V6	V6	V8	V8			
Pest Stage Majority		12	30	7			12-80	6-30			
Pest Density, Unit		8 FT2	7 YD2	5 FT2			2 FT2	6 FT2			
Days After First/Last Applic.	34 6	42 14	42 14	42 14	42 14	42 14	64 36	64 36			
Plant-Eval Interval	35 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	65 DP-1	65 DP-1			
Days After Emergence	27 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	57 DE-1	57 DE-1			
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	9	10	11	12	13	14	15	16
20 Popcorn 2				2.0 a				0.8 a	2.0 bc		
Nicosulfuron (75 WG)	0.49 oz ai/a	B									
Mesotrione (50 WG)	1.25 oz ai/a	B									
COC	1 % v/v	B									
LSD (P=.05)	2.22	4.69	8.46	8.49	2.88	2.88	29.83	22.62			
Standard Deviation	1.57	3.23	5.83	5.85	2.04	2.04	20.56	15.59			
CV	224.05	3.78	7.46	6.89	203.61	72.52	28.52	21.15			
Bartlett's X2	5.858	16.439	22.748	0.201	8.608	6.073	27.455	11.702			
P(Bartlett's X2)	0.827	0.006*	0.004*	0.904	0.736	0.987	0.001*	0.039*			
Replicate F	1.260	1.561	0.774	0.959	0.137	4.298	0.191	0.134			
Replicate Prob(F)	0.2966	0.2219	0.5188	0.4261	0.9377	0.0084	0.9016	0.9392			
Treatment F	1.226	352.695	92.814	109.921	0.914	3.662	7.787	17.066			
Treatment Prob(F)	0.2704	0.0001	0.0001	0.0001	0.5689	0.0001	0.0001	0.0001			

# Purdue University

Pest Type		W Weed		
Pest Code		CHEAL		
Pest Scientific Name		Chenopodium al>		
Pest Name		Common lambsqu>		
Crop Code			ZEAMX	ZEAMX
BBCH Scale			BCOR	BCOR
Crop Scientific Name			Zea mays	Zea mays
Crop Name			Corn	Corn
Rating Date		Jul-9-2014	Jul-9-2014	Jul-9-2014
Rating Type		CONTRO	PHYSTU	GOOSEN
Rating Unit		%	%	%
Sample Size, Unit		1 PLOT	1 PLOT	1 PLOT
Number of Subsamples		1	1	1
Crop Stage Majority		V8		
Pest Stage Majority		6-40		
Pest Density, Unit		2 YD2		
Days After First/Last Applic.		64 36	64 36	64 36
Plant-Eval Interval		65 DP-1	65 DP-1	65 DP-1
Days After Emergence		57 DE-1	57 DE-1	57 DE-1
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	17	18
1 Popcorn 1			0.0 b	0.0 a
Untreated Check				
2 Popcorn 1			95.5 a	2.5 a
Nicosulfuron (75 WG)	0.49 oz ai/a	B		
Mesotrione (50 WG)	1.25 oz ai/a	B		
Isoxadifen (50 WG)	0.125 oz ai/a	B		
COC	1 % v/v	B		
3 Popcorn 1			99.0 a	5.5 a
Nicosulfuron (75 WG)	0.49 oz ai/a	B		
Mesotrione (50 WG)	1.25 oz ai/a	B		
Isoxadifen (50 WG)	0.125 oz ai/a	B		
Atrazine	1 lb ai/a	B		
COC	1 % v/v	B		
4 Popcorn 1			99.0 a	2.0 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		
Nicosulfuron (75 WG)	0.49 oz ai/a	B		
Mesotrione (50 WG)	1.25 oz ai/a	B		
Isoxadifen (50 WG)	0.125 oz ai/a	B		
COC	1 % v/v	B		
5 Popcorn 1			99.0 a	3.8 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		
Nicosulfuron (75 WG)	0.58 oz ai/a	B		
Mesotrione (50 WG)	1.47 oz ai/a	B		
Isoxadifen (50 WG)	0.148 oz ai/a	B		
COC	1 % v/v	B		
6 Popcorn 1			99.0 a	2.0 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a	A		
Nicosulfuron (75 WG)	0.49 oz ai/a	B		
Mesotrione (50 WG)	1.25 oz ai/a	B		
Isoxadifen (50 WG)	0.125 oz ai/a	B		
Atrazine	1 lb ai/a	B		
COC	1 % v/v	B		

# Purdue University

Pest Type	W Weed		
Pest Code	CHEAL		
Pest Scientific Name	Chenopodium al>		
Pest Name	Common lambsqu>		
Crop Code		ZEAMX	ZEAMX
BBCH Scale		BCOR	BCOR
Crop Scientific Name		Zea mays	Zea mays
Crop Name		Corn	Corn
Rating Date	Jul-9-2014	Jul-9-2014	Jul-9-2014
Rating Type	CONTRO	PHYSTU	GOOSEN
Rating Unit	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Crop Stage Majority	V8		
Pest Stage Majority	6-40		
Pest Density, Unit	2 YD2		
Days After First/Last Applic.	64 36	64 36	64 36
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	57 DE-1	57 DE-1	57 DE-1
Trt No.	Treatment	Rate	Appl Code
		Rate Unit	
7	Popcorn 1		
	Cinch ATZ (5.5 SC)	2.06 lb ai/a	A
	Nicosulfuron (75 WG)	0.49 oz ai/a	B
	Mesotrione (50 WG)	1.25 oz ai/a	B
	Isoxadifen (50 WG)	0.125 oz ai/a	B
	Cinch ATZ (5.5 SC)	1.38 lb ai/a	B
	COC	1 % v/v	B
8	Popcorn 1		
	Cinch ATZ (5.5 SC)	2.75 lb ai/a	A
	Laudis (3.5 SL)	1.31 oz ai/a	B
	Atrazine	1 lb ai/a	B
	COC	1 % v/v	B
9	Popcorn 1		
	Nicosulfuron (75 WG)	0.49 oz ai/a	B
	Mesotrione (50 WG)	1.25 oz ai/a	B
	Isoxadifen (50 WG)	0.125 oz ai/a	B
	COC	1 % v/v	B
	AMS - Liquid	2 lb ai/a	B
10	Popcorn 1		
	Nicosulfuron (75 WG)	0.49 oz ai/a	B
	Mesotrione (50 WG)	1.25 oz ai/a	B
	COC	1 % v/v	B
11	Popcorn 2		
	Untreated Check		
12	Popcorn 2		
	Nicosulfuron (75 WG)	0.49 oz ai/a	B
	Mesotrione (50 WG)	1.25 oz ai/a	B
	Isoxadifen (50 WG)	0.125 oz ai/a	B
	COC	1 % v/v	B
	AMS - Liquid	2 lb ai/a	B
13	Popcorn 2		
	Nicosulfuron (75 WG)	0.49 oz ai/a	B
	Mesotrione (50 WG)	1.25 oz ai/a	B
	Isoxadifen (50 WG)	0.125 oz ai/a	B
	Atrazine	1 lb ai/a	B
	COC	1 % v/v	B
	AMS - Liquid	2 lb ai/a	B



# Purdue University

Pest Type	W Weed		
Pest Code	CHEAL		
Pest Scientific Name	Chenopodium al>		
Pest Name	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	
BBCH Scale	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	
Crop Name	Corn	Corn	
Rating Date	Jul-9-2014	Jul-9-2014	Jul-9-2014
Rating Type	CONTRO	PHYSTU	GOOSEN
Rating Unit	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Crop Stage Majority	V8		
Pest Stage Majority	6-40		
Pest Density, Unit	2 YD2		
Days After First/Last Applic.	64 36	64 36	64 36
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	57 DE-1	57 DE-1	57 DE-1
Trt No.	17	18	19
Treatment Name			
14 Popcorn 2		0.5 a	7.5 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a A		
Nicosulfuron (75 WG)	0.49 oz ai/a B		
Mesotrione (50 WG)	1.25 oz ai/a B		
Isoxadifen (50 WG)	0.125 oz ai/a B		
COC	1 % v/v B		
AMS - Liquid	2 lb ai/a B		
15 Popcorn 2		1.3 a	4.3 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a A		
Nicosulfuron (75 WG)	0.58 oz ai/a B		
Mesotrione (50 WG)	1.47 oz ai/a B		
Isoxadifen (50 WG)	0.148 oz ai/a B		
COC	1 % v/v B		
AMS - Liquid	2 lb ai/a B		
16 Popcorn 2		2.0 a	7.0 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a A		
Nicosulfuron (75 WG)	0.49 oz ai/a B		
Mesotrione (50 WG)	1.25 oz ai/a B		
Isoxadifen (50 WG)	0.125 oz ai/a B		
Atrazine	1 lb ai/a B		
COC	1 % v/v B		
AMS - Liquid	2 lb ai/a B		
17 Popcorn 2		0.0 a	5.5 a
Cinch ATZ (5.5 SC)	2.06 lb ai/a A		
Nicosulfuron (75 WG)	0.49 oz ai/a B		
Mesotrione (50 WG)	1.25 oz ai/a B		
Isoxadifen (50 WG)	0.125 oz ai/a B		
Cinch ATZ (5.5 SC)	1.38 lb ai/a B		
COC	1 % v/v B		
AMS - Liquid	2 lb ai/a B		
18 Popcorn 2		0.0 a	5.8 a
Cinch ATZ (5.5 SC)	2.75 lb ai/a A		
Laudis (3.5 SL)	1.31 oz ai/a B		
Atrazine	1 lb ai/a B		
COC	1 % v/v B		
AMS - Liquid	2 lb ai/a B		
19 Popcorn 2		2.8 a	2.5 a
Nicosulfuron (75 WG)	0.49 oz ai/a B		
Mesotrione (50 WG)	1.25 oz ai/a B		
Isoxadifen (50 WG)	0.125 oz ai/a B		
COC	1 % v/v B		
AMS - Liquid	2 lb ai/a B		

# Purdue University

Pest Type	W Weed		
Pest Code	CHEAL		
Pest Scientific Name	Chenopodium al>		
Pest Name	Common lambsqu>		
Crop Code		ZEAMX	ZEAMX
BBCH Scale		BCOR	BCOR
Crop Scientific Name		Zea mays	Zea mays
Crop Name		Corn	Corn
Rating Date	Jul-9-2014	Jul-9-2014	Jul-9-2014
Rating Type	CONTRO	PHYSTU	GOOSEN
Rating Unit	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Crop Stage Majority	V8		
Pest Stage Majority	6-40		
Pest Density, Unit	2 YD2		
Days After First/Last Applic.	64 36	64 36	64 36
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	57 DE-1	57 DE-1	57 DE-1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			17 18 19
20 Popcorn 2			3.5 a 1.3 a
Nicosulfuron (75 WG)	0.49 oz ai/a B		
Mesotrione (50 WG)	1.25 oz ai/a B		
COC	1 % v/v B		
LSD (P=.05)	5.40	4.04	6.17
Standard Deviation	3.72	2.86	4.36
CV	4.22	133.02	118.73
Bartlett's X2	0.195	16.269	16.597
P(Bartlett's X2)	0.659	0.297	0.412
Replicate F	0.475	1.357	6.263
Replicate Prob(F)	0.7023	0.2651	0.0009
Treatment F	278.486	1.986	1.422
Treatment Prob(F)	0.0001	0.0241	0.1533

# Purdue University

## Postemergence Weed Control in Popcorn with DPX-UKU48

Trial ID: 14S-THP-CTP-28      Protocol ID: 14S-THP-CTP-28  
 Location: Throckmorton      Study Director:  
 Project ID: USA-14-011      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  
 PHYSTU = phytotoxicity - stunting  
 PHYBLE = phytotoxicity - bleaching  
 PHYNLS = phytotoxicity - necrosis, leaf spot  
 PHYLMA = phytotoxicity - leaf malformation  
 PHYNEC = phytotoxicity - necrosis /burn  
 GOOSEN = goosenecking

### Rating Unit

% = percent

PLOT = total plot

### Pest Stage Majority

10 = G, M ☐ First true leaf emerged from coleoptile; D ☐ Cotyledons completely unfolded; P ☐ First leaves separated  
 12 = 2 true leaves, leaf pairs or whorls unfolded  
 30 = Beginning of stem elongation; G ☐ Beginning of shooting

FT2 = per square foot

YD2 = per square yard

### Plant-Eval Interval

35 DP-1 = 1 ZEAME May-5-2014  
 43 DP-1 = 1 ZEAME May-5-2014  
 65 DP-1 = 1 ZEAME May-5-2014