

# Purdue University

## SL-573 Programs for Weed Control in Corn

Trial ID: 13S-THP-CTC-13      Protocol ID: 13S-THP-CTC-13  
 Location: IN      Study Director:  
 Project ID: 14-SL-573-Programs      Investigator: Dr. Bill Johnson  
 Sponsor Contact: Dennis Tonks

### General Trial Information

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

**Discipline:** H herbicide  
**Trial Status:** E established

**Planned Completion Date:** Sep-15-2014

### Trial Location

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

### Objectives:

Evaluate efficacy of SL-573 Herbicide Programs in Corn.

### 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:** ZEAMX Zea mays      Corn  
**Variety:** Dekalb DKC 62-08      **Description:** HXX, LL, RR2  
**BBCH Scale:** BCOR      **Planting Date:** May-5-2014  
**Planting Method:** SEEDED    seeded      **Rate, Unit:** 33000 S/A  
**Depth, Unit:** 1.5    IN  
**Row Spacing, Unit:** 30    IN  
**Seed Bed:** FINE      fine  
**Soil Moisture:** DRY      dry      **Emergence Date:** May-12-2014

### Pest Description

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

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

**Pest 3 Type:** W    **Code:** CHEAL Chenopodium album  
**Common Name:** Common lambsquarters

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Site and Design	
<b>Plot Width, Unit:</b> 10 FT <b>Plot Length, Unit:</b> 30 FT <b>Plot Area, Unit:</b> 300 FT <sup>2</sup> <b>Replications:</b> 4	<b>Site Type:</b> FIELD field <b>Experimental Unit:</b> 1 PLOT plot <b>Tillage Type:</b> CONTIL conventional-till <b>Study Design:</b> RACOBL Randomized Complete Block (RCB) <b>Untreated Arrangement:</b> INCLUDED single control randomized in each block

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

Application Description		
	A	B
<b>Application Date:</b>	May-6-2014	May-29-2014
<b>Time of Day:</b>	AM	12PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	ATPLAN	POSPOS
<b>Application Placement:</b>	SOIL	FOLIAR
<b>Air Temperature, Unit:</b>	75.1 F	80 F
<b>% Relative Humidity:</b>	32.5	68
<b>Wind Velocity, Unit:</b>	9.6 mph	4.5 mph
<b>Wind Direction:</b>	SW	NE
<b>Dew Presence (Y/N):</b>	N no	N no
<b>Soil Temperature, Unit:</b>	67.5 F	81 F
<b>Soil Moisture:</b>	Dry	Dry
<b>% Cloud Cover:</b>	10	60

Crop Stage At Each Application		
	A	B
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR
<b>Stage Scale Used:</b>	BBCH	BBCH
<b>Stage Majority, Percent:</b>	00	13

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>		3 YD2
<b>Pest 2 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Height Minimum, Maximum:</b>		1 2
<b>Density, Unit:</b>		11 FT2
<b>Pest 3 Code, Type, Scale:</b>	CHEAL W	CHEAL W
<b>Height Minimum, Maximum:</b>		1 3
<b>Density, Unit:</b>		6 FT2

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## 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

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## SL-573 Programs for Weed Control in Corn

Trial ID: 13S-THP-CTC-13      Protocol ID: 13S-THP-CTC-13  
 Location: IN      Study Director:  
 Project ID: 14-SL-573-Programs      Investigator: Dr. Bill Johnson  
 Sponsor Contact: Dennis Tonks

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 Unit	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	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		102	404	602	804
3	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		104	502	704	901
	Tolpyralate	400 GA/L	SC		1 fl oz/a	29.2 g ai/ha		POSPOS B	2 to 4 inch weeds	0.9766 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	3.4 LB/GAL	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
4	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		105	402	605	904
	Tolpyralate	400 GA/L	SC		1.37 fl oz/a	40 g ai/ha		POSPOS B	2 to 4 inch weeds	1.338 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
5	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		201	505	705	905
	Tolpyralate	400 GA/L	SC		1 fl oz/a	29.2 g ai/ha		POSPOS B	2-4 inch weeds	0.9766 ml/mx						
	Atrazine	4 LBA/GAL	F		1.0 qt/a	1120 g ai/ha		POSPOS B		31.25 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
6	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		202	501	802	1005
	Tolpyralate	400 GA/L	SC		1.37 fl oz/a	40 g ai/ha		POSPOS B	2-4 inch weeds	1.338 ml/mx						
	Atrazine	4 LBA/GAL	F		1.0 qt/a	1120 g ai/ha		POSPOS B		31.25 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
7	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		204	401	601	902
	Tolpyralate	400 GA/L	SC		1.0 fl oz/a	29.2 g ai/ha		POSPOS B	2-4 inch weeds	0.9766 ml/mx						
	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		POSPOS B		46.87 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
8	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		205	305	604	1004
	Tolpyralate	400 GA/L	SC		1.37 fl oz/a	40 g ai/ha		POSPOS B	2-4 inch weeds	1.338 ml/mx						
	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		POSPOS B		46.87 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
9	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		301	304	701	1001
	Tolpyralate	400 GA/L	SC		1 fl oz/a	29.2 g ai/ha		POSPOS B	2-4 inch weeds	0.9766 ml/mx						
	STATUS	56 %	WG		5.0 oz/a	196 g ai/ha		POSPOS B		4.681 g/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
10	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		302	504	801	1002
	Tolpyralate	400 GA/L	SC		1.37 fl oz/a	40 g ai/ha		POSPOS B	2-4 inch weeds	1.338 ml/mx						
	STATUS	56 %	WG		5.0 oz/a	196 g ai/ha		POSPOS B		4.681 g/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx						
11	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		103	403	606	1006
	Tolpyralate	400 GA/L	SC		1 fl oz/a	29.2 g ai/ha		POSPOS B	2-4 inch weeds	0.9766 ml/mx						
	STATUS	56 %	WG		5.0 oz/a	196 g ai/ha		POSPOS B		4.681 g/mx						
	Atrazine	4 LBA/GAL	F		1.0 qt/a	1120 g ai/ha		POSPOS B		31.25 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx							
12	BICEP II MAGNUM	5.5 LB/GAL	L		1.5 qt/a	2310 g ai/ha		PREPRE A		Preemergence	46.87 ml/mx		106	306	706	903
	Tolpyralate	400 GA/L	SC		1.37 fl oz/a	40 g ai/ha		POSPOS B	2-4 inch weeds	1.338 ml/mx						
	STATUS	56 %	WG		5.0 oz/a	196 g ai/ha		POSPOS B		4.681 g/mx						
	Atrazine	4 LBA/GAL	F		1.0 qt/a	1120 g ai/ha		POSPOS B		31.25 ml/mx						
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v		POSPOS B		12.5 ml/mx						
AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v		POSPOS B		125.0 ml/mx							

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Reps: 4

Plots: 10 by 30 feet

Spray vol: 20 gal/ac

Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	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
13	BICEP II MAGNUM	5.5 LB/GAL	L	L	1.5 qt/a	2310 g ai/ha				PREPRE A			46.87 ml/mx		203	506	603	906
	HALEX GT	4.389 LBAE/GAL	L	L	3.6 qt/a	4430 g ai/ha				POSPOS B		2-4 inch weeds	112.5 ml/mx					
	Atrazine	4 LBA/GAL	F	F	1.0 qt/a	1120 g ai/ha				POSPOS B			31.25 ml/mx					
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v				POSPOS B			12.5 ml/mx					
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v				POSPOS B			125.0 ml/mx					
14	BICEP II MAGNUM	5.5 LB/GAL	L	L	1.5 qt/a	2310 g ai/ha				PREPRE A			46.87 ml/mx		206	406	803	806
	STATUS	56 %	WG	WG	5.0 oz/a	196 g ai/ha				POSPOS B		2-4 inch weeds	4.681 g/mx					
	Atrazine	4 LBA/GAL	F	F	1.0 qt/a	1120 g ai/ha				POSPOS B			31.25 ml/mx					
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v				POSPOS B			12.5 ml/mx					
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v				POSPOS B			125.0 ml/mx					
15	BICEP II MAGNUM	5.5 LB/GAL	L	L	1.5 qt/a	2310 g ai/ha				PREPRE A			46.87 ml/mx		303	503	703	1003
	Atrazine	4 LBA/GAL	F	F	1.0 qt/a	1120 g ai/ha				POSPOS B			31.25 ml/mx					
	MSO	100 %	SL		0.5 % v/v	0.5 % v/v				POSPOS B			12.5 ml/mx					
	AMS - Liquid	100 %	SL		5.0 % v/v	5 % v/v				POSPOS B			125.0 ml/mx					

Sort Order: Treatment

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## SL-573 Programs for Weed Control in Corn

Trial ID: 13S-THP-CTC-13      Protocol ID: 13S-THP-CTC-13  
 Location: IN      Study Director:  
 Project ID: 14-SL-573-Programs      Investigator: Dr. Bill Johnson  
 Sponsor Contact: Dennis Tonks

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Sample Size, Unit	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	V3	V3	V3	V3	V4	V4	V4
Pest Stage Majority	3	1	.5		1-2	1-4	.5-1
Pest Density, Unit	3 YD2	10 FT2	4 FT2		4 YD2	1 YD2	4 YD2
Days After First/Last Applic.	23 23	23 23	23 23	23 23	30 7	30 7	30 7
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	24 DE-1	24 DE-1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	1	2	3	4	5
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0
		702	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 BICEP II MAGNUM	1.5 qt/a	A 102	0.0	99.0	99.0	0.0	99.0
		404	0.0	70.0	70.0	0.0	70.0
		602	20.0	97.0	93.0	0.0	99.0
		804	70.0	95.0	90.0	0.0	99.0
	Mean =		22.5	90.3	88.0	0.0	91.8
3 BICEP II MAGNUM	1.5 qt/a	A 104	0.0	70.0	70.0	0.0	99.0
Tolpyralate	1 fl oz/a	B 502	60.0	99.0	99.0	0.0	99.0
MSO	0.5 % v/v	B 704	20.0	97.0	93.0	0.0	99.0
AMS - Liquid	5.0 % v/v	B 901	0.0	99.0	99.0	0.0	99.0
	Mean =		20.0	91.3	90.3	0.0	99.0
4 BICEP II MAGNUM	1.5 qt/a	A 105	70.0	99.0	70.0	0.0	99.0
Tolpyralate	1.37 fl oz/a	B 402	40.0	99.0	99.0	0.0	99.0
MSO	0.5 % v/v	B 605	30.0	93.0	90.0	0.0	99.0
AMS - Liquid	5.0 % v/v	B 904	70.0	99.0	93.0	0.0	99.0
	Mean =		52.5	97.5	88.0	0.0	99.0
5 BICEP II MAGNUM	1.5 qt/a	A 201	65.0	99.0	80.0	0.0	99.0
Tolpyralate	1 fl oz/a	B 505	60.0	99.0	99.0	0.0	99.0
Atrazine	1.0 qt/a	B 705	10.0	99.0	90.0	0.0	99.0
MSO	0.5 % v/v	B 905	85.0	99.0	99.0	0.0	99.0
AMS - Liquid	5.0 % v/v	B					
	Mean =		55.0	99.0	92.0	0.0	99.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL	SETFA	AMBTR	CHEAL	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>	Giant foxtail	Giant ragweed	Common lambsqu>	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
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	V3	V3	V3	V3	V4	V4	V4		
Pest Stage Majority	3	1	5	1-2	1-4	5-1	5-1		
Pest Density, Unit	3 YD2	10 FT2	4 FT2	4 YD2	1 YD2	4 YD2	4 YD2		
Days After First/Last Applic.	23 23	23 23	23 23	23 23	30 7	30 7	30 7		
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	24 DE-1	24 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
6 BICEP II MAGNUM	1.5 qt/a	A 202	50.0	99.0	70.0	0.0	99.0	97.0	99.0
Tolpyralate	1.37 fl oz/a	B 501	30.0	99.0	99.0	0.0	99.0	70.0	99.0
Atrazine	1.0 qt/a	B 802	75.0	99.0	90.0	0.0	99.0	95.0	99.0
MSO	0.5 % v/v	B 1005	20.0	99.0	99.0	0.0	99.0	99.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			43.8	99.0	89.5	0.0	99.0	90.3	99.0
7 BICEP II MAGNUM	1.5 qt/a	A 204	0.0	70.0	70.0	0.0	99.0	95.0	99.0
Tolpyralate	1.0 fl oz/a	B 401	0.0	97.0	90.0	0.0	99.0	95.0	99.0
BICEP II MAGNUM	1.5 qt/a	B 601	0.0	99.0	99.0	0.0	99.0	85.0	99.0
MSO	0.5 % v/v	B 902	60.0	99.0	93.0	0.0	99.0	98.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			15.0	91.3	88.0	0.0	99.0	93.3	99.0
8 BICEP II MAGNUM	1.5 qt/a	A 205	85.0	99.0	95.0	0.0	99.0	97.0	99.0
Tolpyralate	1.37 fl oz/a	B 305	70.0	99.0	90.0	0.0	99.0	95.0	99.0
BICEP II MAGNUM	1.5 qt/a	B 604	50.0	70.0	99.0	0.0	99.0	99.0	99.0
MSO	0.5 % v/v	B 1004	50.0	93.0	90.0	0.0	99.0	99.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			63.8	90.3	93.5	0.0	99.0	97.5	99.0
9 BICEP II MAGNUM	1.5 qt/a	A 301	20.0	99.0	90.0	0.0	99.0	95.0	99.0
Tolpyralate	1 fl oz/a	B 304	60.0	95.0	93.0	0.0	99.0	99.0	99.0
STATUS	5.0 oz/a	B 701	0.0	99.0	99.0	0.0	99.0	95.0	99.0
MSO	0.5 % v/v	B 1001	0.0	99.0	90.0	0.0	99.0	93.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			20.0	98.0	93.0	0.0	99.0	95.5	99.0
10 BICEP II MAGNUM	1.5 qt/a	A 302	85.0	99.0	90.0	0.0	99.0	90.0	95.0
Tolpyralate	1.37 fl oz/a	B 504	65.0	97.0	99.0	0.0	99.0	95.0	99.0
STATUS	5.0 oz/a	B 801	0.0	97.0	95.0	0.0	99.0	95.0	99.0
MSO	0.5 % v/v	B 1002	0.0	90.0	60.0	0.0	99.0	90.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			37.5	95.8	86.0	0.0	99.0	92.5	98.0
11 BICEP II MAGNUM	1.5 qt/a	A 103	85.0	93.0	99.0	0.0	99.0	99.0	99.0
Tolpyralate	1 fl oz/a	B 403	20.0	97.0	99.0	0.0	99.0	98.0	99.0
STATUS	5.0 oz/a	B 606	75.0	99.0	95.0	0.0	99.0	99.0	99.0
Atrazine	1.0 qt/a	B 1006	30.0	99.0	99.0	0.0	99.0	98.0	99.0
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
Mean =			52.5	97.0	98.0	0.0	99.0	98.5	99.0

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	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	V3	V3	V3	V3	V4	V4	V4		
Pest Stage Majority	3	1	5		1-2	1-4	.5-1		
Pest Density, Unit	3 YD2	10 FT2	4 FT2		4 YD2	1 YD2	4 YD2		
Days After First/Last Applic.	23 23	23 23	23 23	23 23	30 7	30 7	30 7		
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	24 DE-1	24 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
12 BICEP II MAGNUM	1.5 qt/a	A 106	0.0	99.0	70.0	0.0	99.0	99.0	99.0
Tolpyralate	1.37 fl oz/a	B 306	75.0	99.0	99.0	0.0	99.0	98.0	99.0
STATUS	5.0 oz/a	B 706	0.0	99.0	93.0	0.0	99.0	90.0	99.0
Atrazine	1.0 qt/a	B 903	50.0	95.0	95.0	0.0	99.0	97.0	99.0
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
Mean =			31.3	98.0	89.3	0.0	99.0	96.0	99.0
13 BICEP II MAGNUM	1.5 qt/a	A 203	75.0	95.0	99.0	0.0	99.0	99.0	99.0
HALEX GT	3.6 qt/a	B 506	30.0	99.0	99.0	0.0	99.0	99.0	99.0
Atrazine	1.0 qt/a	B 603	40.0	99.0	99.0	0.0	99.0	97.0	99.0
MSO	0.5 % v/v	B 906	60.0	99.0	93.0	0.0	99.0	97.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			51.3	98.0	97.5	0.0	99.0	98.0	99.0
14 BICEP II MAGNUM	1.5 qt/a	A 206	75.0	99.0	99.0	0.0	99.0	97.0	99.0
STATUS	5.0 oz/a	B 406	40.0	99.0	99.0	0.0	99.0	95.0	99.0
Atrazine	1.0 qt/a	B 803	70.0	93.0	99.0	0.0	99.0	99.0	99.0
MSO	0.5 % v/v	B 806	40.0	99.0	99.0	0.0	99.0	75.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			56.3	97.5	99.0	0.0	99.0	91.5	99.0
15 BICEP II MAGNUM	1.5 qt/a	A 303	85.0	99.0	99.0	0.0	99.0	95.0	99.0
Atrazine	1.0 qt/a	B 503	80.0	99.0	99.0	0.0	99.0	80.0	99.0
MSO	0.5 % v/v	B 703	70.0	97.0	97.0	0.0	99.0	40.0	99.0
AMS - Liquid	5.0 % v/v	B 1003	50.0	99.0	90.0	0.0	99.0	95.0	99.0
Mean =			71.3	98.5	96.3	0.0	99.0	77.5	99.0

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Pest Type			W Weed	W Weed	W Weed					
Pest Code			SETFA	AMBTR	CHEAL					
Pest Scientific Name			Setaria faberi	Ambrosia trifida	Chenopodium album					
Pest Name			Giant foxtail	Giant ragweed	Common lambsquarters					
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	Jun-5-2014	Jun-5-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014		
Rating Type	PHYNLS	PHYCHL	CONTRO	CONTRO	CONTRO	PHYNEC	PHYSTU	PHYBLE		
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	V4	V4	V6	V6	V6	V6	V6	V6		
Pest Stage Majority			4	12	2.5					
Pest Density, Unit			5 FT2	5 YD2	3 FT2					
Days After First/Last Applic.	30 7	30 7	37 14	37 14	37 14	37 14	37 14	37 14		
Plant-Eval Interval	31 DP-1	31 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1		
Days After Emergence	24 DE-1	24 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1		
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14	15
1 Untreated Check		101	0.0	0.0	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	0.0	0.0
		702	0.0	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	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 BICEP II MAGNUM	1.5 qt/a	A 102	0.0	0.0	90.0	50.0	80.0	0.0	0.0	0.0
		404	0.0	0.0	70.0	40.0	60.0	0.0	0.0	0.0
		602	0.0	0.0	99.0	75.0	99.0	0.0	0.0	0.0
		804	0.0	0.0	85.0	40.0	85.0	0.0	0.0	0.0
		Mean =	0.0	0.0	86.0	51.3	81.0	0.0	0.0	0.0
3 BICEP II MAGNUM	1.5 qt/a	A 104	0.0	0.0	95.0	90.0	99.0	6.0	0.0	0.0
		Tolpyralate 1 fl oz/a B 502	0.0	0.0	99.0	92.0	99.0	0.0	0.0	0.0
		MSO 0.5 % v/v B 704	0.0	0.0	99.0	87.0	99.0	0.0	0.0	0.0
		AMS - Liquid 5.0 % v/v B 901	1.0	0.0	99.0	85.0	99.0	0.0	0.0	0.0
		Mean =	0.3	0.0	98.0	88.5	99.0	1.5	0.0	0.0
4 BICEP II MAGNUM	1.5 qt/a	A 105	0.0	0.0	97.0	92.0	99.0	0.0	0.0	0.0
		Tolpyralate 1.37 fl oz/a B 402	1.0	0.0	97.0	80.0	99.0	5.0	0.0	0.0
		MSO 0.5 % v/v B 605	0.0	0.0	99.0	90.0	99.0	0.0	0.0	0.0
		AMS - Liquid 5.0 % v/v B 904	1.0	0.0	99.0	93.0	99.0	0.0	0.0	0.0
		Mean =	0.5	0.0	98.0	88.8	99.0	1.3	0.0	0.0
5 BICEP II MAGNUM	1.5 qt/a	A 201	2.0	0.0	99.0	85.0	99.0	5.0	0.0	0.0
		Tolpyralate 1 fl oz/a B 505	1.0	0.0	99.0	87.0	99.0	3.0	0.0	0.0
		Atrazine 1.0 qt/a B 705	0.0	0.0	99.0	87.0	99.0	0.0	5.0	0.0
		MSO 0.5 % v/v B 905	0.0	0.0	99.0	94.0	99.0	0.0	0.0	0.0
		AMS - Liquid 5.0 % v/v B								
		Mean =	0.8	0.0	99.0	88.3	99.0	2.0	1.3	0.0

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Pest Type	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX	
Pest Code	BCOR		BCOR		BCOR		BCOR		BCOR		BCOR	
Pest Scientific Name	Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays	
Pest Name	Corn		Corn		Corn		Corn		Corn		Corn	
Crop Code	Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays	
BBCH Scale	31 DP-1		31 DP-1		38 DP-1		38 DP-1		38 DP-1		38 DP-1	
Crop Scientific Name	24 DE-1		24 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1	
Crop Name	PHYNLS		PHYCHL		CONTRO		CONTRO		CONTRO		PHYNEC	
Rating Date	%		%		%		%		%		%	
Rating Type	1 PLOT		1 PLOT		1 PLOT		1 PLOT		1 PLOT		1 PLOT	
Rating Unit	1		1		1		1		1		1	
Sample Size, Unit	1		1		1		1		1		1	
Number of Subsamples	V4		V4		V6		V6		V6		V6	
Crop Stage Majority	4		4		12		12		2.5		2.5	
Pest Stage Majority	5 FT2		5 FT2		5 YD2		5 YD2		3 FT2		3 FT2	
Pest Density, Unit	37 14		37 14		37 14		37 14		37 14		37 14	
Days After First/Last Applic.	31 DP-1		31 DP-1		38 DP-1		38 DP-1		38 DP-1		38 DP-1	
Plant-Eval Interval	24 DE-1		24 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1	
Days After Emergence	31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1	
Trt Treatment	Rate	Appl										
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14	15		
6 BICEP II MAGNUM	1.5 qt/a	A 202	1.0	0.0	97.0	94.0	99.0	0.0	0.0	0.0		
Tolpyralate	1.37 fl oz/a	B 501	0.0	0.0	95.0	75.0	99.0	3.0	0.0	0.0		
Atrazine	1.0 qt/a	B 802	0.0	0.0	99.0	87.0	95.0	0.0	0.0	0.0		
MSO	0.5 % v/v	B 1005	0.0	0.0	99.0	95.0	99.0	0.0	0.0	0.0		
AMS - Liquid	5.0 % v/v	B										
Mean =			0.3	0.0	97.5	87.8	98.0	0.8	0.0	0.0		
7 BICEP II MAGNUM	1.5 qt/a	A 204	2.0	0.0	97.0	95.0	99.0	5.0	0.0	0.0		
Tolpyralate	1.0 fl oz/a	B 401	1.0	0.0	99.0	84.0	99.0	5.0	0.0	0.0		
BICEP II MAGNUM	1.5 qt/a	B 601	3.0	0.0	99.0	87.0	99.0	5.0	0.0	0.0		
MSO	0.5 % v/v	B 902	2.0	0.0	99.0	94.0	99.0	5.0	0.0	0.0		
AMS - Liquid	5.0 % v/v	B										
Mean =			2.0	0.0	98.5	90.0	99.0	5.0	0.0	0.0		
8 BICEP II MAGNUM	1.5 qt/a	A 205	1.0	0.0	99.0	93.0	99.0	3.0	0.0	0.0		
Tolpyralate	1.37 fl oz/a	B 305	0.0	0.0	99.0	94.0	99.0	0.0	0.0	0.0		
BICEP II MAGNUM	1.5 qt/a	B 604	1.0	0.0	99.0	93.0	99.0	5.0	0.0	0.0		
MSO	0.5 % v/v	B 1004	4.0	0.0	99.0	97.0	99.0	4.0	5.0	0.0		
AMS - Liquid	5.0 % v/v	B										
Mean =			1.5	0.0	99.0	94.3	99.0	3.0	1.3	0.0		
9 BICEP II MAGNUM	1.5 qt/a	A 301	3.0	0.0	99.0	90.0	99.0	5.0	5.0	0.0		
Tolpyralate	1 fl oz/a	B 304	0.0	0.0	99.0	93.0	99.0	7.0	0.0	0.0		
STATUS	5.0 oz/a	B 701	2.0	0.0	99.0	87.0	99.0	5.0	5.0	0.0		
MSO	0.5 % v/v	B 1001	3.0	0.0	99.0	83.0	99.0	5.0	0.0	0.0		
AMS - Liquid	5.0 % v/v	B										
Mean =			2.0	0.0	99.0	88.3	99.0	5.5	2.5	0.0		
10 BICEP II MAGNUM	1.5 qt/a	A 302	1.0	0.0	99.0	97.0	99.0	0.0	0.0	0.0		
Tolpyralate	1.37 fl oz/a	B 504	0.0	0.0	99.0	93.0	99.0	0.0	0.0	0.0		
STATUS	5.0 oz/a	B 801	1.0	0.0	99.0	87.0	99.0	0.0	0.0	0.0		
MSO	0.5 % v/v	B 1002	1.0	0.0	99.0	94.0	99.0	0.0	0.0	0.0		
AMS - Liquid	5.0 % v/v	B										
Mean =			0.8	0.0	99.0	92.8	99.0	0.0	0.0	0.0		
11 BICEP II MAGNUM	1.5 qt/a	A 103	1.0	0.0	99.0	98.0	99.0	5.0	0.0	0.0		
Tolpyralate	1 fl oz/a	B 403	3.0	0.0	99.0	95.0	99.0	7.0	5.0	0.0		
STATUS	5.0 oz/a	B 606	0.0	0.0	99.0	97.0	99.0	0.0	0.0	0.0		
Atrazine	1.0 qt/a	B 1006	1.0	0.0	99.0	96.0	99.0	0.0	0.0	0.0		
MSO	0.5 % v/v	B										
AMS - Liquid	5.0 % v/v	B										
Mean =			1.3	0.0	99.0	96.5	99.0	3.0	1.3	0.0		

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Pest Type	ZEAMX		ZEAMX		W Weed		W Weed		W Weed		ZEAMX		ZEAMX		ZEAMX	
Pest Code	BCOR		BCOR		SETFA		AMBTR		CHEAL		BCOR		BCOR		BCOR	
Pest Scientific Name					Setaria faberi		Ambrosia trifi>		Chenopodium al>							
Pest Name					Giant foxtail		Giant ragweed		Common lambsqu>							
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX	
BBCH Scale	BCOR		BCOR		BCOR		BCOR		BCOR		BCOR		BCOR		BCOR	
Crop Scientific Name	Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays	
Crop Name	Corn		Corn		Corn		Corn		Corn		Corn		Corn		Corn	
Rating Date	Jun-5-2014		Jun-5-2014		Jun-12-2014		Jun-12-2014		Jun-12-2014		Jun-12-2014		Jun-12-2014		Jun-12-2014	
Rating Type	PHYNLS		PHYCHL		CONTRO		CONTRO		CONTRO		PHYNEC		PHYSTU		PHYBLE	
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	V4		V4		V6		V6		V6		V6		V6		V6	
Pest Stage Majority					4		12		2.5							
Pest Density, Unit					5 FT2		5 YD2		3 FT2							
Days After First/Last Applic.	30 7		30 7		37 14		37 14		37 14		37 14		37 14		37 14	
Plant-Eval Interval	31 DP-1		31 DP-1		38 DP-1		38 DP-1		38 DP-1		38 DP-1		38 DP-1		38 DP-1	
Days After Emergence	24 DE-1		24 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1	
Trt Treatment	Rate	Appl														
No. Name	Rate Unit	Code Plot	8	9	10	11	12	13	14	15						
12 BICEP II MAGNUM	1.5 qt/a	A 106	0.0	0.0	99.0	99.0	99.0	0.0	0.0	0.0						
Tolpyralate	1.37 fl oz/a	B 306	0.0	0.0	99.0	94.0	99.0	0.0	3.0	0.0						
STATUS	5.0 oz/a	B 706	0.0	0.0	99.0	90.0	99.0	0.0	0.0	0.0						
Atrazine	1.0 qt/a	B 903	2.0	0.0	97.0	90.0	99.0	0.0	0.0	0.0						
MSO	0.5 % v/v	B														
AMS - Liquid	5.0 % v/v	B														
Mean =			0.5	0.0	98.5	93.3	99.0	0.0	0.8	0.0						
13 BICEP II MAGNUM	1.5 qt/a	A 203	1.0	10.0	99.0	98.0	99.0	0.0	0.0	7.0						
HALEX GT	3.6 qt/a	B 506	0.0	12.0	99.0	96.0	99.0	0.0	0.0	7.0						
Atrazine	1.0 qt/a	B 603	1.0	8.0	99.0	96.0	99.0	0.0	0.0	10.0						
MSO	0.5 % v/v	B 906	0.0	10.0	99.0	98.0	99.0	0.0	0.0	10.0						
AMS - Liquid	5.0 % v/v	B														
Mean =			0.5	10.0	99.0	97.0	99.0	0.0	0.0	8.5						
14 BICEP II MAGNUM	1.5 qt/a	A 206	0.0	0.0	99.0	97.0	99.0	0.0	0.0	0.0						
STATUS	5.0 oz/a	B 406	0.0	0.0	95.0	93.0	99.0	0.0	5.0	0.0						
Atrazine	1.0 qt/a	B 803	1.0	0.0	95.0	93.0	99.0	3.0	0.0	3.0						
MSO	0.5 % v/v	B 806	0.0	0.0	95.0	93.0	99.0	0.0	0.0	0.0						
AMS - Liquid	5.0 % v/v	B														
Mean =			0.3	0.0	96.0	94.0	99.0	0.8	1.3	0.8						
15 BICEP II MAGNUM	1.5 qt/a	A 303	3.0	0.0	95.0	80.0	85.0	3.0	0.0	0.0						
Atrazine	1.0 qt/a	B 503	0.0	0.0	94.0	83.0	80.0	0.0	0.0	0.0						
MSO	0.5 % v/v	B 703	0.0	0.0	95.0	75.0	99.0	0.0	0.0	0.0						
AMS - Liquid	5.0 % v/v	B 1003	1.0	0.0	99.0	90.0	99.0	3.0	0.0	0.0						
Mean =			1.0	0.0	95.8	82.0	90.8	1.5	0.0	0.0						

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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	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	Jun-12-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jul-15-2014	Jul-15-2014		
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO	CONTRO		
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	V6	V7	V7	V7	V7	V10	V10		
Pest Stage Majority		15	40	14		6-80	6-12		
Pest Density, Unit		15 FT2	3 YD2	3 FT2		2 FT2	4 YD2		
Days After First/Last Applic.	37 14	48 25	48 25	48 25	48 25	70 47	70 47		
Plant-Eval Interval	38 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	71 DP-1	71 DP-1		
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	64 DE-1	64 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	16	17	18	19	20	21	22
1 Untreated Check		101	0.0	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	0.0
		702	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 BICEP II MAGNUM	1.5 qt/a	A 102	0.0	90.0	80.0	99.0	0.0	65.0	80.0
		404	0.0	60.0	40.0	60.0	0.0	0.0	50.0
		602	0.0	95.0	73.0	99.0	0.0	0.0	75.0
		804	0.0	80.0	50.0	60.0	0.0	0.0	50.0
		Mean =	0.0	81.3	60.8	79.5	0.0	16.3	63.8
3 BICEP II MAGNUM	1.5 qt/a	A 104	0.0	85.0	85.0	99.0	0.0	40.0	70.0
Tolpyralate	1 fl oz/a	B 502	5.0	95.0	90.0	99.0	0.0	80.0	99.0
MSO	0.5 % v/v	B 704	5.0	87.0	89.0	99.0	0.0	60.0	80.0
AMS - Liquid	5.0 % v/v	B 901	0.0	99.0	83.0	99.0	5.0	40.0	99.0
		Mean =	2.5	91.5	86.8	99.0	1.3	55.0	87.0
4 BICEP II MAGNUM	1.5 qt/a	A 105	5.0	99.0	87.0	99.0	0.0	90.0	95.0
Tolpyralate	1.37 fl oz/a	B 402	0.0	99.0	80.0	99.0	0.0	50.0	85.0
MSO	0.5 % v/v	B 605	5.0	95.0	87.0	99.0	0.0	40.0	85.0
AMS - Liquid	5.0 % v/v	B 904	0.0	87.0	95.0	99.0	5.0	90.0	60.0
		Mean =	2.5	95.0	87.3	99.0	1.3	67.5	81.3
5 BICEP II MAGNUM	1.5 qt/a	A 201	5.0	95.0	87.0	99.0	0.0	85.0	98.0
Tolpyralate	1 fl oz/a	B 505	0.0	99.0	92.0	99.0	0.0	50.0	95.0
Atrazine	1.0 qt/a	B 705	5.0	99.0	87.0	99.0	0.0	80.0	99.0
MSO	0.5 % v/v	B 905	0.0	99.0	93.0	99.0	3.0	70.0	85.0
AMS - Liquid	5.0 % v/v	B							
		Mean =	2.5	98.0	89.8	99.0	0.8	71.3	94.3

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMBTR	SETFA	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Ambrosia trifi>	Setaria faberi	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Giant ragweed	Giant foxtail	Giant foxtail
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	Jun-12-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jul-15-2014
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V6	V7	V7	V7	V7	V10
Pest Stage Majority		15	40	14		6-80
Pest Density, Unit		15 FT2	3 YD2	3 FT2		2 FT2
Days After First/Last Applic.	37 14	48 25	48 25	48 25	48 25	70 47
Plant-Eval Interval	38 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	71 DP-1
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	64 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	16	17	18	19
6 BICEP II MAGNUM	1.5 qt/a	A 202	0.0	95.0	93.0	99.0
Tolpyralate	1.37 fl oz/a	B 501	0.0	95.0	80.0	90.0
Atrazine	1.0 qt/a	B 802	0.0	99.0	85.0	94.0
MSO	0.5 % v/v	B 1005	0.0	99.0	92.0	99.0
AMS - Liquid	5.0 % v/v	B				0.0
Mean =			0.0	97.0	87.5	95.5
7 BICEP II MAGNUM	1.5 qt/a	A 204	0.0	95.0	93.0	99.0
Tolpyralate	1.0 fl oz/a	B 401	0.0	99.0	85.0	99.0
BICEP II MAGNUM	1.5 qt/a	B 601	0.0	99.0	89.0	99.0
MSO	0.5 % v/v	B 902	0.0	99.0	90.0	99.0
AMS - Liquid	5.0 % v/v	B				5.0
Mean =			0.0	98.0	89.3	99.0
8 BICEP II MAGNUM	1.5 qt/a	A 205	0.0	99.0	92.0	99.0
Tolpyralate	1.37 fl oz/a	B 305	0.0	99.0	93.0	99.0
BICEP II MAGNUM	1.5 qt/a	B 604	0.0	99.0	93.0	99.0
MSO	0.5 % v/v	B 1004	0.0	99.0	94.0	99.0
AMS - Liquid	5.0 % v/v	B				7.0
Mean =			0.0	99.0	93.0	99.0
9 BICEP II MAGNUM	1.5 qt/a	A 301	0.0	99.0	85.0	99.0
Tolpyralate	1 fl oz/a	B 304	5.0	94.0	93.0	99.0
STATUS	5.0 oz/a	B 701	0.0	99.0	87.0	99.0
MSO	0.5 % v/v	B 1001	0.0	99.0	86.0	99.0
AMS - Liquid	5.0 % v/v	B				0.0
Mean =			1.3	97.8	87.8	99.0
10 BICEP II MAGNUM	1.5 qt/a	A 302	0.0	99.0	94.0	99.0
Tolpyralate	1.37 fl oz/a	B 504	0.0	99.0	95.0	99.0
STATUS	5.0 oz/a	B 801	0.0	99.0	82.0	99.0
MSO	0.5 % v/v	B 1002	0.0	99.0	92.0	99.0
AMS - Liquid	5.0 % v/v	B				0.0
Mean =			0.0	99.0	90.8	99.0
11 BICEP II MAGNUM	1.5 qt/a	A 103	0.0	90.0	95.0	99.0
Tolpyralate	1 fl oz/a	B 403	5.0	99.0	93.0	99.0
STATUS	5.0 oz/a	B 606	5.0	99.0	94.0	99.0
Atrazine	1.0 qt/a	B 1006	0.0	99.0	90.0	99.0
MSO	0.5 % v/v	B				3.0
AMS - Liquid	5.0 % v/v	B				3.0
Mean =			2.5	96.8	93.0	99.0

# Purdue University

Pest Type		W Weed	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	ZEAMX	ZEAMX	ZEAMX			
BBCB Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn			
Rating Date	Jun-12-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jul-15-2014	Jul-15-2014		
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO	CONTRO		
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	V6	V7	V7	V7	V7	V10	V10		
Pest Stage Majority		15	40	14		6-80	6-12		
Pest Density, Unit		15 FT2	3 YD2	3 FT2		2 FT2	4 YD2		
Days After First/Last Applic.	37 14	48 25	48 25	48 25	48 25	70 47	70 47		
Plant-Eval Interval	38 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	71 DP-1	71 DP-1		
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	64 DE-1	64 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	16	17	18	19	20	21	22
12 BICEP II MAGNUM	1.5 qt/a	A 106	7.0	99.0	93.0	99.0	0.0	95.0	95.0
Tolpyralate	1.37 fl oz/a	B 306	0.0	99.0	94.0	99.0	5.0	80.0	99.0
STATUS	5.0 oz/a	B 706	0.0	95.0	89.0	99.0	0.0	60.0	99.0
Atrazine	1.0 qt/a	B 903	0.0	93.0	85.0	99.0	0.0	50.0	50.0
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
Mean =			1.8	96.5	90.3	99.0	1.3	71.3	85.8
13 BICEP II MAGNUM	1.5 qt/a	A 203	0.0	99.0	99.0	99.0	0.0	99.0	99.0
HALEX GT	3.6 qt/a	B 506	0.0	99.0	96.0	99.0	0.0	95.0	99.0
Atrazine	1.0 qt/a	B 603	5.0	99.0	99.0	99.0	3.0	85.0	85.0
MSO	0.5 % v/v	B 906	0.0	99.0	97.0	99.0	5.0	99.0	99.0
AMS - Liquid	5.0 % v/v	B							
Mean =			1.3	99.0	97.8	99.0	2.0	94.5	95.5
14 BICEP II MAGNUM	1.5 qt/a	A 206	0.0	97.0	95.0	99.0	3.0	90.0	99.0
STATUS	5.0 oz/a	B 406	0.0	95.0	93.0	95.0	3.0	75.0	90.0
Atrazine	1.0 qt/a	B 803	0.0	93.0	93.0	99.0	3.0	50.0	60.0
MSO	0.5 % v/v	B 806	0.0	92.0	90.0	99.0	0.0	80.0	75.0
AMS - Liquid	5.0 % v/v	B							
Mean =			0.0	94.3	92.8	98.0	2.3	73.8	81.0
15 BICEP II MAGNUM	1.5 qt/a	A 303	0.0	88.0	86.0	85.0	0.0	0.0	30.0
Atrazine	1.0 qt/a	B 503	5.0	90.0	86.0	99.0	0.0	60.0	40.0
MSO	0.5 % v/v	B 703	0.0	90.0	80.0	99.0	0.0	0.0	75.0
AMS - Liquid	5.0 % v/v	B 1003	0.0	97.0	90.0	99.0	0.0	60.0	85.0
Mean =			1.3	91.3	85.5	95.5	0.0	30.0	57.5

# Purdue University

Pest Type	W Weed
Pest Code	CHEAL
Pest Scientific Name	Chenopodium al>
Pest Name	Common lambsqu>
Crop Code	ZEAMX
BBCB Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Date	Jul-15-2014
Rating Type	CONTRO
Rating Unit	%
Sample Size, Unit	1 PLOT
Number of Subsamples	1
Crop Stage Majority	V10
Pest Stage Majority	4-8
Pest Density, Unit	2 YD2
Days After First/Last Applic.	70 47
Plant-Eval Interval	71 DP-1
Days After Emergence	64 DE-1
Trt Treatment	Rate Appl
No. Name	Rate Unit Code Plot
	23
1 Untreated Check	101 0.0
	405 0.0
	702 0.0
	805 0.0
	Mean = 0.0
2 BICEP II MAGNUM	1.5 qt/a A 102 99.0
	404 60.0
	602 99.0
	804 50.0
	Mean = 77.0
3 BICEP II MAGNUM	1.5 qt/a A 104 99.0
Tolpyralate	1 fl oz/a B 502 99.0
MSO	0.5 % v/v B 704 99.0
AMS - Liquid	5.0 % v/v B 901 99.0
	Mean = 99.0
4 BICEP II MAGNUM	1.5 qt/a A 105 99.0
Tolpyralate	1.37 fl oz/a B 402 99.0
MSO	0.5 % v/v B 605 99.0
AMS - Liquid	5.0 % v/v B 904 99.0
	Mean = 99.0
5 BICEP II MAGNUM	1.5 qt/a A 201 99.0
Tolpyralate	1 fl oz/a B 505 99.0
Atrazine	1.0 qt/a B 705 99.0
MSO	0.5 % v/v B 905 99.0
AMS - Liquid	5.0 % v/v B
	Mean = 99.0

# Purdue University

Pest Type				W Weed
Pest Code				CHEAL
Pest Scientific Name				Chenopodium al>
Pest Name				Common lambsqu>
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date				Jul-15-2014
Rating Type				CONTRO
Rating Unit				%
Sample Size, Unit	1 PLOT			
Number of Subsamples				1
Crop Stage Majority				V10
Pest Stage Majority				4-8
Pest Density, Unit	2 YD2			
Days After First/Last Applic.	70 47			
Plant-Eval Interval	71 DP-1			
Days After Emergence	64 DE-1			
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	Plot	23
6 BICEP II MAGNUM	1.5 qt/a	A	202	99.0
Tolpyralate	1.37 fl oz/a	B	501	99.0
Atrazine	1.0 qt/a	B	802	99.0
MSO	0.5 % v/v	B	1005	99.0
AMS - Liquid	5.0 % v/v	B		
	Mean =			99.0
7 BICEP II MAGNUM	1.5 qt/a	A	204	99.0
Tolpyralate	1.0 fl oz/a	B	401	99.0
BICEP II MAGNUM	1.5 qt/a	B	601	99.0
MSO	0.5 % v/v	B	902	99.0
AMS - Liquid	5.0 % v/v	B		
	Mean =			99.0
8 BICEP II MAGNUM	1.5 qt/a	A	205	99.0
Tolpyralate	1.37 fl oz/a	B	305	99.0
BICEP II MAGNUM	1.5 qt/a	B	604	99.0
MSO	0.5 % v/v	B	1004	99.0
AMS - Liquid	5.0 % v/v	B		
	Mean =			99.0
9 BICEP II MAGNUM	1.5 qt/a	A	301	99.0
Tolpyralate	1 fl oz/a	B	304	99.0
STATUS	5.0 oz/a	B	701	99.0
MSO	0.5 % v/v	B	1001	99.0
AMS - Liquid	5.0 % v/v	B		
	Mean =			99.0
10 BICEP II MAGNUM	1.5 qt/a	A	302	99.0
Tolpyralate	1.37 fl oz/a	B	504	99.0
STATUS	5.0 oz/a	B	801	99.0
MSO	0.5 % v/v	B	1002	99.0
AMS - Liquid	5.0 % v/v	B		
	Mean =			99.0
11 BICEP II MAGNUM	1.5 qt/a	A	103	99.0
Tolpyralate	1 fl oz/a	B	403	99.0
STATUS	5.0 oz/a	B	606	99.0
Atrazine	1.0 qt/a	B	1006	99.0
MSO	0.5 % v/v	B		
AMS - Liquid	5.0 % v/v	B		
	Mean =			99.0

# Purdue University

Pest Type				W Weed	
Pest Code				CHEAL	
Pest Scientific Name				Chenopodium al>	
Pest Name				Common lambsqu>	
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Scientific Name				Zea mays	
Crop Name				Corn	
Rating Date				Jul-15-2014	
Rating Type				CONTRO	
Rating Unit				%	
Sample Size, Unit				1 PLOT	
Number of Subsamples				1	
Crop Stage Majority				V10	
Pest Stage Majority				4-8	
Pest Density, Unit				2 YD2	
Days After First/Last Applic.				70 47	
Plant-Eval Interval				71 DP-1	
Days After Emergence				64 DE-1	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	Plot		23
12 BICEP II MAGNUM	1.5 qt/a	A	106		99.0
Tolpyralate	1.37 fl oz/a	B	306		99.0
STATUS	5.0 oz/a	B	706		99.0
Atrazine	1.0 qt/a	B	903		99.0
MSO	0.5 % v/v	B			
AMS - Liquid	5.0 % v/v	B			
				Mean =	99.0
13 BICEP II MAGNUM	1.5 qt/a	A	203		99.0
HALEX GT	3.6 qt/a	B	506		99.0
Atrazine	1.0 qt/a	B	603		99.0
MSO	0.5 % v/v	B	906		99.0
AMS - Liquid	5.0 % v/v	B			
				Mean =	99.0
14 BICEP II MAGNUM	1.5 qt/a	A	206		99.0
STATUS	5.0 oz/a	B	406		99.0
Atrazine	1.0 qt/a	B	803		99.0
MSO	0.5 % v/v	B	806		99.0
AMS - Liquid	5.0 % v/v	B			
				Mean =	99.0
15 BICEP II MAGNUM	1.5 qt/a	A	303		99.0
Atrazine	1.0 qt/a	B	503		99.0
MSO	0.5 % v/v	B	703		99.0
AMS - Liquid	5.0 % v/v	B	1003		99.0
				Mean =	99.0

# Purdue University

## SL-573 Programs for Weed Control in Corn

Trial ID: 13S-THP-CTC-13      Protocol ID: 13S-THP-CTC-13  
 Location: IN      Study Director:  
 Project ID: 14-SL-573-Programs      Investigator: Dr. Bill Johnson  
 Sponsor Contact: Dennis Tonks

### Pest Type

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

### Pest Code

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

### Crop Code

ZEAMX, BCOR, Zea mays, = US

### Rating Type

CONTRO = control / burndown or knockdown  
 PHYGEN = phytotoxicity - general / injury  
 PHYNLS = phytotoxicity - necrosis, leaf spot  
 PHYCHL = phytotoxicity - chlorosis  
 PHYNEC = phytotoxicity - necrosis /burn  
 PHYSTU = phytotoxicity - stunting  
 PHYBLE = phytotoxicity - bleaching  
 PHYLMA = phytotoxicity - leaf malformation

### Rating Unit

% = percent

PLOT = total plot

### Pest Stage Majority

12 = 2 true leaves, leaf pairs or whorls unfolded  
 15 = 5 true leaves, leaf pairs or whorls unfolded  
 40 = V<sub>1</sub> Vegetative reproductive organs begin to develop (rhizomes, stolons, tubers, runners, bulbs)  
 14 = 4 true leaves, leaf pairs or whorls unfolded

YD2 = per square yard

FT2 = per square foot

### Plant-Eval Interval

24 DP-1 = 1 ZEAMX May-5-2014  
 31 DP-1 = 1 ZEAMX May-5-2014  
 38 DP-1 = 1 ZEAMX May-5-2014  
 49 DP-1 = 1 ZEAMX May-5-2014  
 71 DP-1 = 1 ZEAMX May-5-2014

# Purdue University

## SL-573 Programs for Weed Control in Corn

Trial ID: 13S-THP-CTC-13      Protocol ID: 13S-THP-CTC-13  
 Location: IN      Study Director:  
 Project ID: 14-SL-573-Programs      Investigator: Dr. Bill Johnson  
 Sponsor Contact: Dennis Tonks

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	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	V3	V3	V3	V3	V4	V4	V4		
Pest Stage Majority	3	1	.5		1-2	1-4	.5-1		
Pest Density, Unit	3 YD2	10 FT2	4 FT2		4 YD2	1 YD2	4 YD2		
Days After First/Last Applic.	23 23	23 23	23 23	23 23	30 7	30 7	30 7		
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	24 DE-1	24 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
1 Untreated Check			0.0 b	0.0 b	0.0 b	0.0 a	0.0 b	0.0 c	0.0 b
2 BICEP II MAGNUM	1.5 qt/a	A	22.5 ab	90.3 a	88.0 a	0.0 a	91.8 a	71.3 b	91.8 a
3 BICEP II MAGNUM	1.5 qt/a	A	20.0 ab	91.3 a	90.3 a	0.0 a	99.0 a	88.0 ab	99.0 a
Tolpyralate	1 fl oz/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
4 BICEP II MAGNUM	1.5 qt/a	A	52.5 ab	97.5 a	88.0 a	0.0 a	99.0 a	91.8 ab	99.0 a
Tolpyralate	1.37 fl oz/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
5 BICEP II MAGNUM	1.5 qt/a	A	55.0 ab	99.0 a	92.0 a	0.0 a	99.0 a	89.8 ab	99.0 a
Tolpyralate	1 fl oz/a	B							
Atrazine	1.0 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
6 BICEP II MAGNUM	1.5 qt/a	A	43.8 ab	99.0 a	89.5 a	0.0 a	99.0 a	90.3 ab	99.0 a
Tolpyralate	1.37 fl oz/a	B							
Atrazine	1.0 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
7 BICEP II MAGNUM	1.5 qt/a	A	15.0 ab	91.3 a	88.0 a	0.0 a	99.0 a	93.3 ab	99.0 a
Tolpyralate	1.0 fl oz/a	B							
BICEP II MAGNUM	1.5 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
8 BICEP II MAGNUM	1.5 qt/a	A	63.8 ab	90.3 a	93.5 a	0.0 a	99.0 a	97.5 a	99.0 a
Tolpyralate	1.37 fl oz/a	B							
BICEP II MAGNUM	1.5 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							

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

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	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	V3	V3	V3	V3	V4	V4	V4		
Pest Stage Majority	3	1	.5		1-2	1-4	.5-1		
Pest Density, Unit	3 YD2	10 FT2	4 FT2		4 YD2	1 YD2	4 YD2		
Days After First/Last Applic.	23 23	23 23	23 23	23 23	30 7	30 7	30 7		
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	24 DE-1	24 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
9 BICEP II MAGNUM Tolpyralate STATUS MSO AMS - Liquid	1.5 qt/a 1 fl oz/a 5.0 oz/a 0.5 % v/v 5.0 % v/v	A B B B B	20.0 ab	98.0 a	93.0 a	0.0 a	99.0 a	95.5 ab	99.0 a
10 BICEP II MAGNUM Tolpyralate STATUS MSO AMS - Liquid	1.5 qt/a 1.37 fl oz/a 5.0 oz/a 0.5 % v/v 5.0 % v/v	A B B B B	37.5 ab	95.8 a	86.0 a	0.0 a	99.0 a	92.5 ab	98.0 a
11 BICEP II MAGNUM Tolpyralate STATUS Atrazine MSO AMS - Liquid	1.5 qt/a 1 fl oz/a 5.0 oz/a 1.0 qt/a 0.5 % v/v 5.0 % v/v	A B B B B B	52.5 ab	97.0 a	98.0 a	0.0 a	99.0 a	98.5 a	99.0 a
12 BICEP II MAGNUM Tolpyralate STATUS Atrazine MSO AMS - Liquid	1.5 qt/a 1.37 fl oz/a 5.0 oz/a 1.0 qt/a 0.5 % v/v 5.0 % v/v	A B B B B B	31.3 ab	98.0 a	89.3 a	0.0 a	99.0 a	96.0 ab	99.0 a
13 BICEP II MAGNUM HALEX GT Atrazine MSO AMS - Liquid	1.5 qt/a 3.6 qt/a 1.0 qt/a 0.5 % v/v 5.0 % v/v	A B B B B	51.3 ab	98.0 a	97.5 a	0.0 a	99.0 a	98.0 a	99.0 a
14 BICEP II MAGNUM STATUS Atrazine MSO AMS - Liquid	1.5 qt/a 5.0 oz/a 1.0 qt/a 0.5 % v/v 5.0 % v/v	A B B B B	56.3 ab	97.5 a	99.0 a	0.0 a	99.0 a	91.5 ab	99.0 a

# Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	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	V3	V3	V3	V3	V4	V4	V4		
Pest Stage Majority	3	1	.5		1-2	1-4	.5-1		
Pest Density, Unit	3 YD2	10 FT2	4 FT2		4 YD2	1 YD2	4 YD2		
Days After First/Last Applic.	23 23	23 23	23 23	23 23	30 7	30 7	30 7		
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1	31 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	24 DE-1	24 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
15 BICEP II MAGNUM	1.5 qt/a	A	71.3 a	98.5 a	96.3 a	0.0 a	99.0 a	77.5 ab	99.0 a
Atrazine	1.0 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
LSD (P=.05)			39.41	10.87	13.39	0.00	5.35	14.96	5.42
Standard Deviation			27.58	7.60	9.37	0.00	3.74	10.47	3.79
CV			69.82	8.5	10.91	0.0	4.07	12.35	4.13
Bartlett's X2			6.507	45.266	22.786	0.0	0.0	57.66	7.754
P(Bartlett's X2)			0.926	0.001*	0.03*	.	.	0.001*	0.005*
Replicate F			0.863	0.409	2.943	0.000	1.000	1.957	0.904
Replicate Prob(F)			0.4680	0.7471	0.0439	1.0000	0.4023	0.1352	0.4473
Treatment F			2.214	43.096	26.511	0.000	185.513	22.100	180.621
Treatment Prob(F)			0.0238	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001





# 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	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn	
Rating Date	Jun-5-2014	Jun-5-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	Jun-12-2014	
Rating Type	PHYNLS	PHYCHL	CONTRO	CONTRO	CONTRO	PHYNEC	PHYSTU	PHYBLE	PHYBLE	
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	V4	V4	V6	V6	V6	V6	V6	V6	V6	
Pest Stage Majority			4	12	2.5					
Pest Density, Unit			5 FT2	5 YD2	3 FT2					
Days After First/Last Applic.	30 7	30 7	37 14	37 14	37 14	37 14	37 14	37 14	37 14	
Plant-Eval Interval	31 DP-1	31 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	
Days After Emergence	24 DE-1	24 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit Code	8	9	10	11	12	13	14	15
15 BICEP II MAGNUM	1.5 qt/a	A	1.0 a	0.0 b	95.8 a	82.0 b	90.8 a	1.5 bc	0.0 a	0.0 b
Atrazine	1.0 qt/a	B								
MSO	0.5 % v/v	B								
AMS - Liquid	5.0 % v/v	B								
LSD (P=.05)			1.28	0.60	4.71	8.62	6.85	2.50	2.24	0.83
Standard Deviation			0.90	0.42	3.30	6.03	4.80	1.75	1.57	0.58
CV			117.18	63.25	3.63	7.34	5.29	108.38	285.6	93.96
Bartlett's X2			14.025	0.0	37.915	37.05	8.403	6.392	1.205	0.061
P(Bartlett's X2)			0.299	.	0.001*	0.001*	0.015*	0.603	0.944	0.805
Replicate F			1.900	1.000	1.374	1.138	1.638	1.337	0.421	1.638
Replicate Prob(F)			0.1443	0.4023	0.2638	0.3448	0.1950	0.2751	0.7389	0.1949
Treatment F			2.145	150.000	236.108	69.847	113.462	4.210	0.987	57.113
Treatment Prob(F)			0.0286	0.0001	0.0001	0.0001	0.0001	0.0001	0.4825	0.0001

# 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	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	Jun-12-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jul-15-2014	Jul-15-2014		
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO	CONTRO		
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	V6	V7	V7	V7	V7	V10	V10		
Pest Stage Majority		15	40	14		6-80	6-12		
Pest Density, Unit		15 FT2	3 YD2	3 FT2		2 FT2	4 YD2		
Days After First/Last Applic.	37 14	48 25	48 25	48 25	48 25	70 47	70 47		
Plant-Eval Interval	38 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	71 DP-1	71 DP-1		
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	64 DE-1	64 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	16	17	18	19	20	21	22
1 Untreated Check			0.0 a	0.0 c	0.0 c	0.0 c	0.0 a	0.0 d	0.0 b
2 BICEP II MAGNUM	1.5 qt/a	A	0.0 a	81.3 b	60.8 b	79.5 b	0.0 a	16.3 cd	63.8 a
3 BICEP II MAGNUM	1.5 qt/a	A	2.5 a	91.5 a	86.8 a	99.0 a	1.3 a	55.0 abc	87.0 a
Tolpyralate	1 fl oz/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
4 BICEP II MAGNUM	1.5 qt/a	A	2.5 a	95.0 a	87.3 a	99.0 a	1.3 a	67.5 ab	81.3 a
Tolpyralate	1.37 fl oz/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
5 BICEP II MAGNUM	1.5 qt/a	A	2.5 a	98.0 a	89.8 a	99.0 a	0.8 a	71.3 ab	94.3 a
Tolpyralate	1 fl oz/a	B							
Atrazine	1.0 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
6 BICEP II MAGNUM	1.5 qt/a	A	0.0 a	97.0 a	87.5 a	95.5 a	0.0 a	63.8 ab	92.0 a
Tolpyralate	1.37 fl oz/a	B							
Atrazine	1.0 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
7 BICEP II MAGNUM	1.5 qt/a	A	0.0 a	98.0 a	89.3 a	99.0 a	2.0 a	37.5 bcd	87.0 a
Tolpyralate	1.0 fl oz/a	B							
BICEP II MAGNUM	1.5 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
8 BICEP II MAGNUM	1.5 qt/a	A	0.0 a	99.0 a	93.0 a	99.0 a	3.0 a	76.3 ab	96.8 a
Tolpyralate	1.37 fl oz/a	B							
BICEP II MAGNUM	1.5 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							

# 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	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	Jun-12-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jul-15-2014	Jul-15-2014
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO	CONTRO
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	V6	V7	V7	V7	V7	V10	V10
Pest Stage Majority		15	40	14		6-80	6-12
Pest Density, Unit		15 FT2	3 YD2	3 FT2		2 FT2	4 YD2
Days After First/Last Applic.	37 14	48 25	48 25	48 25	48 25	70 47	70 47
Plant-Eval Interval	38 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	71 DP-1	71 DP-1
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	64 DE-1	64 DE-1
Trt No.	Treatment	Rate	Appl				
	No. Name	Rate Unit	Code	16	17	18	19
	9 BICEP II MAGNUM	1.5 qt/a	A	1.3 a	97.8 a	87.8 a	99.0 a
	Tolpyralate	1 fl oz/a	B				3.3 a
	STATUS	5.0 oz/a	B				52.5 abc
	MSO	0.5 % v/v	B				
	AMS - Liquid	5.0 % v/v	B				82.3 a
	10 BICEP II MAGNUM	1.5 qt/a	A	0.0 a	99.0 a	90.8 a	99.0 a
	Tolpyralate	1.37 fl oz/a	B				0.8 a
	STATUS	5.0 oz/a	B				66.3 ab
	MSO	0.5 % v/v	B				
	AMS - Liquid	5.0 % v/v	B				93.5 a
	11 BICEP II MAGNUM	1.5 qt/a	A	2.5 a	96.8 a	93.0 a	99.0 a
	Tolpyralate	1 fl oz/a	B				3.5 a
	STATUS	5.0 oz/a	B				82.5 ab
	Atrazine	1.0 qt/a	B				
	MSO	0.5 % v/v	B				
	AMS - Liquid	5.0 % v/v	B				89.3 a
	12 BICEP II MAGNUM	1.5 qt/a	A	1.8 a	96.5 a	90.3 a	99.0 a
	Tolpyralate	1.37 fl oz/a	B				1.3 a
	STATUS	5.0 oz/a	B				71.3 ab
	Atrazine	1.0 qt/a	B				
	MSO	0.5 % v/v	B				
	AMS - Liquid	5.0 % v/v	B				85.8 a
	13 BICEP II MAGNUM	1.5 qt/a	A	1.3 a	99.0 a	97.8 a	99.0 a
	HALEX GT	3.6 qt/a	B				2.0 a
	Atrazine	1.0 qt/a	B				94.5 a
	MSO	0.5 % v/v	B				
	AMS - Liquid	5.0 % v/v	B				95.5 a
	14 BICEP II MAGNUM	1.5 qt/a	A	0.0 a	94.3 a	92.8 a	98.0 a
	STATUS	5.0 oz/a	B				2.3 a
	Atrazine	1.0 qt/a	B				73.8 ab
	MSO	0.5 % v/v	B				
	AMS - Liquid	5.0 % v/v	B				81.0 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	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	Jun-12-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jun-23-2014	Jul-15-2014	Jul-15-2014		
Rating Type	PHYLMA	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO	CONTRO		
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	V6	V7	V7	V7	V7	V10	V10		
Pest Stage Majority		15	40	14		6-80	6-12		
Pest Density, Unit		15 FT2	3 YD2	3 FT2		2 FT2	4 YD2		
Days After First/Last Applic.	37 14	48 25	48 25	48 25	48 25	70 47	70 47		
Plant-Eval Interval	38 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	71 DP-1	71 DP-1		
Days After Emergence	31 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	64 DE-1	64 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit Code	16	17	18	19	20	21	22
15 BICEP II MAGNUM	1.5 qt/a	A	1.3 a	91.3 a	85.5 a	95.5 a	0.0 a	30.0 bcd	57.5 a
Atrazine	1.0 qt/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	5.0 % v/v	B							
LSD (P=.05)			2.87	7.40	8.73	8.94	2.73	31.96	22.98
Standard Deviation			2.01	5.18	6.11	6.25	1.91	22.37	16.08
CV			194.39	5.82	7.44	6.9	135.02	39.09	20.33
Bartlett's X2			0.546	29.29	43.923	15.905	6.316	13.602	19.536
P(Bartlett's X2)			0.999	0.001*	0.001*	0.001*	0.788	0.402	0.107
Replicate F			1.944	0.330	0.928	0.808	1.511	3.467	0.211
Replicate Prob(F)			0.1371	0.8035	0.4358	0.4968	0.2256	0.0244	0.8879
Treatment F			1.185	93.418	62.493	66.785	1.607	5.368	9.316
Treatment Prob(F)			0.3216	0.0001	0.0001	0.0001	0.1171	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		
BBCB Scale	BCOR		
Crop Scientific Name	Zea mays		
Crop Name	Corn		
Rating Date	Jul-15-2014		
Rating Type	CONTRO		
Rating Unit	%		
Sample Size, Unit	1	PLOT	
Number of Subsamples	1		
Crop Stage Majority	V10		
Pest Stage Majority	4-8		
Pest Density, Unit	2	YD2	
Days After First/Last Applic.	70	47	
Plant-Eval Interval	71	DP-1	
Days After Emergence	64	DE-1	
Trt No.	Treatment Name	Rate	Appl Code
		Rate Unit	
			23
1	Untreated Check		0.0 c
2	BICEP II MAGNUM	1.5 qt/a	A
3	BICEP II MAGNUM	1.5 qt/a	A
	Tolpyralate	1 fl oz/a	B
	MSO	0.5 % v/v	B
	AMS - Liquid	5.0 % v/v	B
4	BICEP II MAGNUM	1.5 qt/a	A
	Tolpyralate	1.37 fl oz/a	B
	MSO	0.5 % v/v	B
	AMS - Liquid	5.0 % v/v	B
5	BICEP II MAGNUM	1.5 qt/a	A
	Tolpyralate	1 fl oz/a	B
	Atrazine	1.0 qt/a	B
	MSO	0.5 % v/v	B
	AMS - Liquid	5.0 % v/v	B
6	BICEP II MAGNUM	1.5 qt/a	A
	Tolpyralate	1.37 fl oz/a	B
	Atrazine	1.0 qt/a	B
	MSO	0.5 % v/v	B
	AMS - Liquid	5.0 % v/v	B
7	BICEP II MAGNUM	1.5 qt/a	A
	Tolpyralate	1.0 fl oz/a	B
	BICEP II MAGNUM	1.5 qt/a	B
	MSO	0.5 % v/v	B
	AMS - Liquid	5.0 % v/v	B
8	BICEP II MAGNUM	1.5 qt/a	A
	Tolpyralate	1.37 fl oz/a	B
	BICEP II MAGNUM	1.5 qt/a	B
	MSO	0.5 % v/v	B
	AMS - Liquid	5.0 % v/v	B

# Purdue University

Pest Type	W Weed		
Pest Code	CHEAL		
Pest Scientific Name	Chenopodium al>		
Pest Name	Common lambsqu>		
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Scientific Name	Zea mays		
Crop Name	Corn		
Rating Date	Jul-15-2014		
Rating Type	CONTRO		
Rating Unit	%		
Sample Size, Unit	1	PLOT	
Number of Subsamples	1		
Crop Stage Majority	V10		
Pest Stage Majority	4-8		
Pest Density, Unit	2	YD2	
Days After First/Last Applic.	70	47	
Plant-Eval Interval	71	DP-1	
Days After Emergence	64	DE-1	
Trt No.	Treatment Name	Rate Unit Appl Code	
			23
9	BICEP II MAGNUM Tolpyralate STATUS MSO AMS - Liquid	1.5 qt/a A 1 fl oz/a B 5.0 oz/a B 0.5 % v/v B 5.0 % v/v B	99.0 a
10	BICEP II MAGNUM Tolpyralate STATUS MSO AMS - Liquid	1.5 qt/a A 1.37 fl oz/a B 5.0 oz/a B 0.5 % v/v B 5.0 % v/v B	99.0 a
11	BICEP II MAGNUM Tolpyralate STATUS Atrazine MSO AMS - Liquid	1.5 qt/a A 1 fl oz/a B 5.0 oz/a B 1.0 qt/a B 0.5 % v/v B 5.0 % v/v B	99.0 a
12	BICEP II MAGNUM Tolpyralate STATUS Atrazine MSO AMS - Liquid	1.5 qt/a A 1.37 fl oz/a B 5.0 oz/a B 1.0 qt/a B 0.5 % v/v B 5.0 % v/v B	99.0 a
13	BICEP II MAGNUM HALEX GT Atrazine MSO AMS - Liquid	1.5 qt/a A 3.6 qt/a B 1.0 qt/a B 0.5 % v/v B 5.0 % v/v B	99.0 a
14	BICEP II MAGNUM STATUS Atrazine MSO AMS - Liquid	1.5 qt/a A 5.0 oz/a B 1.0 qt/a B 0.5 % v/v B 5.0 % v/v B	99.0 a

# Purdue University

Pest Type	W Weed	
Pest Code	CHEAL	
Pest Scientific Name	Chenopodium al>	
Pest Name	Common lambsqu>	
Crop Code	ZEAMX	
BBCH Scale	BCOR	
Crop Scientific Name	Zea mays	
Crop Name	Corn	
Rating Date	Jul-15-2014	
Rating Type	CONTRO	
Rating Unit	%	
Sample Size, Unit	1	PLOT
Number of Subsamples	1	
Crop Stage Majority	V10	
Pest Stage Majority	4-8	
Pest Density, Unit	2	YD2
Days After First/Last Applic.	70	47
Plant-Eval Interval	71	DP-1
Days After Emergence	64	DE-1
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		23
15 BICEP II MAGNUM	1.5 qt/a	A
Atrazine	1.0 qt/a	B
MSO	0.5 % v/v	B
AMS - Liquid	5.0 % v/v	B
LSD (P=.05)	9.49	
Standard Deviation	6.64	
CV	7.31	
Bartlett's X2	0.0	
P(Bartlett's X2)	.	
Replicate F	1.000	
Replicate Prob(F)	0.4023	
Treatment F	60.265	
Treatment Prob(F)	0.0001	

# Purdue University

## SL-573 Programs for Weed Control in Corn

Trial ID: 13S-THP-CTC-13      Protocol ID: 13S-THP-CTC-13  
 Location: IN      Study Director:  
 Project ID: 14-SL-573-Programs      Investigator: Dr. Bill Johnson  
 Sponsor Contact: Dennis Tonks

### Pest Type

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

### Pest Code

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

### Crop Code

ZEAMX, BCOR, Zea mays, = US

### Rating Type

CONTRO = control / burndown or knockdown  
 PHYGEN = phytotoxicity - general / injury  
 PHYNLS = phytotoxicity - necrosis, leaf spot  
 PHYCHL = phytotoxicity - chlorosis  
 PHYNEC = phytotoxicity - necrosis /burn  
 PHYSTU = phytotoxicity - stunting  
 PHYBLE = phytotoxicity - bleaching  
 PHYLMA = phytotoxicity - leaf malformation

### Rating Unit

% = percent

PLOT = total plot

### Pest Stage Majority

12 = 2 true leaves, leaf pairs or whorls unfolded  
 15 = 5 true leaves, leaf pairs or whorls unfolded  
 40 = V<sub>1</sub> Vegetative reproductive organs begin to develop (rhizomes, stolons, tubers, runners, bulbs)  
 14 = 4 true leaves, leaf pairs or whorls unfolded

YD2 = per square yard

FT2 = per square foot

### Plant-Eval Interval

24 DP-1 = 1 ZEAMX May-5-2014  
 31 DP-1 = 1 ZEAMX May-5-2014  
 38 DP-1 = 1 ZEAMX May-5-2014  
 49 DP-1 = 1 ZEAMX May-5-2014  
 71 DP-1 = 1 ZEAMX May-5-2014