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SL-573 for Weed Control in Non RR/LL Corn

Trial ID: 14S-THP-CTC-09 Protocol ID: 14S-THP-CTC-09
 Location: Throckmorton Study Director:
 Project ID: 14-US-H-2-CG Non RR Univ Investigator: Dr. Bill Johnson
 Sponsor Contact: ISK - Dennis Tonks

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

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: 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

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

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Soil Description

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

Application Description

	A	B
Application Date:	May-5-2014	May-29-2014
Time of Day:	AM	AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOWE
Application Placement:	SOIL	FOLIAR
Air Temperature, Unit:	75.1 F	80 F
% Relative Humidity:	32.5	68
Wind Velocity, Unit:	9.6 mph	4.5 mph
Wind Direction:	SW	NE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	67.5 F	81 F
Soil Moisture:	Dry	Dry
% Cloud Cover:	10	60

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		3 IN
Height Minimum, Maximum:		1 4
Density, Unit:		3 YD2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		2 IN
Height Minimum, Maximum:		1 2
Density, Unit:		11 FT2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		2-3
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		6 FT2

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Application Equipment

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

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Trial ID: 14S-THP-CTC-09 Protocol ID: 14S-THP-CTC-09
 Location: Throckmorton Study Director:
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 Sponsor Contact: ISK - 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	Other Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	405	702	805
2	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	102	404	602	804
3	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	104	502	704	901
	SL-573 (400 SL)	400	G/L	SL	0.417 oz	ai/a	1	oz/a	EAPOWE	B	2-4" weeds	0.9772 ml/mx				
	Atrazine	4	LBA/GAL	F	1 lb	ai/a	2	pt/a	EAPOWE	B	2-4" weeds	31.25 ml/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
	28% UAN	100 %		SL	2.5 %	v/v	2.5 %	v/v	EAPOWE	B	2-4" weeds	62.49 ml/mx				
4	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	105	402	605	904
	SL-573 (400 SL)	400	G/L	SL	0.57 oz	ai/a	1.37	oz/a	EAPOWE	B	2-4" weeds	1.336 ml/mx				
	Atrazine	4	LBA/GAL	F	1 lb	ai/a	2	pt/a	EAPOWE	B	2-4" weeds	31.25 ml/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
	28% UAN	100 %		SL	2.5 %	v/v	2.5 %	v/v	EAPOWE	B	2-4" weeds	62.49 ml/mx				
5	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	201	505	705	905
	SL-573 (400 SL)	400	G/L	SL	0.417 oz	ai/a	1	oz/a	EAPOWE	B	2-4" weeds	0.9772 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	1.91 lb	ai/a	2	pt/a	EAPOWE	B	2-4" weeds	31.25 ml/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
AMS - Liquid	3.4	LB/GAL	SL	17 lb	ai/100 gal	20	qt/100 gal	EAPOWE	B	2-4" weeds	125.0 ml/mx					
6	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	202	501	802	1005
	SL-573 (400 SL)	400	G/L	SL	0.57 oz	ai/a	1.37	oz/a	EAPOWE	B	2-4" weeds	1.336 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	Zidua (85 WG)	85 %		WG	2.55 oz	ai/a	3	oz/a	EAPOWE	B	2-4" weeds	2.808 g/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
AMS - Liquid	3.4	LB/GAL	SL	17 lb	ai/100 gal	20	qt/100 gal	EAPOWE	B	2-4" weeds	125.0 ml/mx					
7	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	204	401	601	902
	SL-573 (400 SL)	400	G/L	SL	0.57 oz	ai/a	1.37	oz/a	EAPOWE	B	2-4" weeds	1.336 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	SL-950 (40 SL)	40	G/L	SL	0.0313 lb	ai/a	12	oz/a	EAPOWE	B	2-4" weeds	11.74 ml/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
AMS - Liquid	3.4	LB/GAL	SL	17 lb	ai/100 gal	20	qt/100 gal	EAPOWE	B	2-4" weeds	125.0 ml/mx					
8	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	205	305	604	1004
	SL-573 (400 SL)	400	G/L	SL	0.57 oz	ai/a	1.37	oz/a	EAPOWE	B	2-4" weeds	1.336 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	Steadfast Q (37.7 WG)	37.7 %		WG	0.565 oz	ai/a	1.5	oz/a	EAPOWE	B	2-4" weeds	1.403 g/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
AMS - Liquid	3.4	LB/GAL	SL	17 lb	ai/100 gal	20	qt/100 gal	EAPOWE	B	2-4" weeds	125.0 ml/mx					
9	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	301	304	701	1001
	SL-573 (400 SL)	400	G/L	SL	0.417 oz	ai/a	1	oz/a	EAPOWE	B	2-4" weeds	0.9772 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	Status (56 SG)	56 %		SG	2.8 oz	ai/a	5	oz/a	EAPOWE	B	2-4" weeds	4.681 g/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
28% UAN	100 %		SL	2.5 %	v/v	2.5 %	v/v	EAPOWE	B	2-4" weeds	62.49 ml/mx					
10	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	302	504	801	1002
	Callisto (4.0 SC)	4	LBA/GAL	SC	1.5 oz	ai/a	3	oz/a	EAPOWE	B	2-4" weeds	2.929 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	COC	100 %		SL	1 %	v/v	1 %	v/v	EAPOWE	B	2-4" weeds	25.0 ml/mx				
	28% UAN	100 %		SL	2.5 %	v/v	2.5 %	v/v	EAPOWE	B	2-4" weeds	62.49 ml/mx				
11	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5 oz	ai/a	1.67	pt/a	ATPLAN	A		26.07 ml/mx	103	303	603	803
	Impact (2.8 SC)	2.8	LBA/GAL	SL	0.35 oz	ai/a	1	oz/a	EAPOWE	B	2-4" weeds	0.9765 ml/mx				
	Atrazine	4	LBA/GAL	F	0.875 lb	ai/a	1.75	pt/a	EAPOWE	B	2-4" weeds	27.34 ml/mx				
	MSO	100 %		L	0.5 %	v/v	0.5 %	v/v	EAPOWE	B	2-4" weeds	12.5 ml/mx				
	28% UAN	100 %		SL	2.5 %	v/v	2.5 %	v/v	EAPOWE	B	2-4" weeds	62.49 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 Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
12	Dual II Magnum (7.64 EC)	7.64	LBA/GAL	EC	25.5	oz ai/a	1.67	pt/a		ATPLAN	A		26.07 ml/mx	203	403	703	903
	Atrazine	4	LBA/GAL	F	1	lb ai/a	2	pt/a		EAPOWE	B	2-4" weeds	31.25 ml/mx				
	MSO	100	%	L	0.5	% v/v	0.5	% v/v		EAPOWE	B	2-4" weeds	12.5 ml/mx				
	28% UAN	100	%	SL	2.5	% v/v	2.5	% v/v		EAPOWE	B	2-4" weeds	62.49 ml/mx				

Sort Order: Treatment

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 Location: Throckmorton Study Director:
 Project ID: 14-US-H-2-CG Non RR Univ Investigator: Dr. Bill Johnson
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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
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-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYNLS	PHYCHL	PHYSTU		
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	V4	V4	V4	V4	V4	V4
Pest Stage Majority	1-2"	2-5"	1-2"					
Pest Density, Unit	2 YD2	4 FT2	3 YD2					
Assessed By	GT	GT	GT	GT	GT	GT	GT	GT
Days After First/Last Applic.	31 7	31 7	31 7	31 7	31 7	31 7	31 7	31 7
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 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
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0	0.0	0.0
		805	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 102	99.0	0.0	80.0	0.0	0.0	0.0
		404	99.0	0.0	0.0	0.0	0.0	0.0
		602	99.0	0.0	25.1*	0.0	0.0	0.0
		804	99.0	0.0	0.0	0.0	0.0	0.0
		Mean =	99.0	0.0	26.3	0.0	0.0	0.0
3 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 104	99.0	95.0	99.0	2.0	0.0	0.0
SL-573 (400 SL)	0.417 oz ai/a	B 502	99.0	70.0	99.0	3.0	0.0	0.0
Atrazine	1 lb ai/a	B 704	99.0	90.0	99.0	5.0	0.0	0.0
MSO	0.5 % v/v	B 901	99.0	70.0	99.0	3.0	0.0	0.0
28% UAN	2.5 % v/v	B						
		Mean =	99.0	81.3	99.0	3.3	0.0	0.0
4 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 105	99.0	70.0	99.0	0.0	0.0	0.0
SL-573 (400 SL)	0.57 oz ai/a	B 402	99.0	40.0	99.0	3.0	0.0	0.0
Atrazine	1 lb ai/a	B 605	99.0	40.0	99.0	0.0	0.0	0.0
MSO	0.5 % v/v	B 904	99.0	70.0	99.0	9.0	0.0	0.0
28% UAN	2.5 % v/v	B						
		Mean =	99.0	55.0	99.0	3.0	0.0	0.0
5 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 201	99.0	95.0	99.0	2.0	0.0	0.0
SL-573 (400 SL)	0.417 oz ai/a	B 505	99.0	60.0	99.0	5.0	0.0	0.0
Atrazine	0.875 lb ai/a	B 705	99.0	70.0	99.0	2.0	0.0	0.0
Dual II Magnum (7.64 EC)	1.91 lb ai/a	B 905	99.0	97.0	99.0	1.0	0.0	0.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
		Mean =	99.0	80.5	99.0	2.5	0.0	0.0

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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
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-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYNLS	PHYCHL	PHYSTU
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	V4	V4	V4	V4	V4	V4
Pest Stage Majority	1-2"	2-5"	1-2"			
Pest Density, Unit	2 YD2	4 FT2	3 YD2			
Assessed By	GT	GT	GT	GT	GT	GT
Days After First/Last Applic.	31 7	31 7	31 7	31 7	31 7	31 7
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 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
6 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 202	99.0	60.0	99.0	0.0
SL-573 (400 SL)	0.57 oz ai/a	B 501	99.0	80.0	99.0	2.0
Atrazine	0.875 lb ai/a	B 802	99.0	60.0	99.0	0.0
Zidua (85 WG)	2.55 oz ai/a	B 1005	99.0	60.0	99.0	2.0
MSO	0.5 % v/v	B				0.0
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	65.0	99.0	1.0
7 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 204	99.0	50.0	99.0	2.0
SL-573 (400 SL)	0.57 oz ai/a	B 401	99.0	70.0	99.0	3.0
Atrazine	0.875 lb ai/a	B 601	99.0	60.0	99.0	3.0
SL-950 (40 SL)	0.0313 lb ai/a	B 902	99.0	60.0	99.0	2.0
MSO	0.5 % v/v	B				0.0
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	60.0	99.0	2.5
8 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 205	99.0	60.0	99.0	8.0
SL-573 (400 SL)	0.57 oz ai/a	B 305	99.0	50.0	99.0	7.0
Atrazine	0.875 lb ai/a	B 604	99.0	70.0	99.0	10.0
Steadfast Q (37.7 WG)	0.565 oz ai/a	B 1004	99.0	80.0	99.0	3.0
MSO	0.5 % v/v	B				0.0
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	65.0	99.0	7.0
9 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 301	99.0	85.0	99.0	1.0
SL-573 (400 SL)	0.417 oz ai/a	B 304	99.0	70.0	99.0	1.0
Atrazine	0.875 lb ai/a	B 701	99.0	50.0	99.0	3.0
Status (56 SG)	2.8 oz ai/a	B 1001	99.0	95.0	99.0	3.0
MSO	0.5 % v/v	B				0.0
28% UAN	2.5 % v/v	B				
Mean =			99.0	75.0	99.0	2.0
10 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 302	99.0	60.0	99.0	4.0
Callisto (4.0 SC)	1.5 oz ai/a	B 504	99.0	60.0	99.0	4.0
Atrazine	0.875 lb ai/a	B 801	99.0	50.0	99.0	3.0
COC	1 % v/v	B 1002	99.0	60.0	99.0	4.0
28% UAN	2.5 % v/v	B				10.0
Mean =			99.0	57.5	99.0	3.8

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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
BCH 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-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYNLS	PHYCHL	PHYSTU
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	V4	V4	V4	V4	V4	V4
Pest Stage Majority	1-2"	2-5"	1-2"			
Pest Density, Unit	2 YD2	4 FT2	3 YD2			
Assessed By	GT	GT	GT	GT	GT	GT
Days After First/Last Applic.	31 7	31 7	31 7	31 7	31 7	31 7
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 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
11 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 103	99.0	50.0	99.0	0.0
Impact (2.8 SC)	0.35 oz ai/a	B 303	99.0	40.0	99.0	0.0
Atrazine	0.875 lb ai/a	B 603	99.0	60.0	99.0	0.0
MSO	0.5 % v/v	B 803	99.0	80.0	99.0	3.0
28% UAN	2.5 % v/v	B				0.0
		Mean =	99.0	57.5	99.0	0.8
12 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 203	99.0	0.0	0.0	0.0
Atrazine	1 lb ai/a	B 403	99.0	0.0	40.0	0.0
MSO	0.5 % v/v	B 703	99.0	0.0	0.0	0.0
28% UAN	2.5 % v/v	B 903	99.0	50.0	10.1*	2.0
		Mean =	99.0	12.5	12.5	0.5

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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	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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNLS	PHYLMA
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	V6	V6	V6	V6	V6
Pest Stage Majority	4-40"	1-6"	1-3"			
Pest Density, Unit	2 FT2	3 FT2	1 YD2			
Assessed By						
Days After First/Last Applic.	42 18	42 18	42 18	42 18	42 18	42 18
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	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	7	8	9	10
1 Untreated Check		101	0.0	0.0	0.0	0.0
		405	0.0	0.0	0.0	0.0
		702	0.0	0.0	0.0	0.0
		805	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0
2 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 102	0.0	80.0	0.0	3.0
		404	0.0	80.0	0.0	0.0
		602	0.0	95.0	70.0	0.0
		804	0.0	90.0	0.0	0.0
		Mean =	0.0	86.3	17.5	0.8
3 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 104	30.0	99.0	99.0	0.0
SL-573 (400 SL)	0.417 oz ai/a	B 502	20.0	99.0	99.0	3.0
Atrazine	1 lb ai/a	B 704	75.0	99.0	99.0	0.0
MSO	0.5 % v/v	B 901	30.0	99.0	99.0	3.0
28% UAN	2.5 % v/v	B				0.0
		Mean =	38.8	99.0	99.0	1.5
4 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 105	40.0	99.0	99.0	0.0
SL-573 (400 SL)	0.57 oz ai/a	B 402	50.0	99.0	99.0	0.0
Atrazine	1 lb ai/a	B 605	70.0	99.0	99.0	0.0
MSO	0.5 % v/v	B 904	70.0	99.0	99.0	5.0
28% UAN	2.5 % v/v	B				2.0
		Mean =	57.5	99.0	99.0	1.3
5 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 201	50.0	99.0	99.0	3.0
SL-573 (400 SL)	0.417 oz ai/a	B 505	20.0	99.0	99.0	7.0
Atrazine	0.875 lb ai/a	B 705	65.0	99.0	99.0	3.0
Dual II Magnum (7.64 EC)	1.91 lb ai/a	B 905	90.0	99.0	99.0	3.0
MSO	0.5 % v/v	B				0.0
AMS - Liquid	17 lb ai/100 gal	B				0.0
		Mean =	56.3	99.0	99.0	4.0

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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	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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNLS	PHYLMA		
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	V6	V6	V6	V6	V6		
Pest Stage Majority	4-40"	1-6"	1-3"					
Pest Density, Unit	2 FT2	3 FT2	1 YD2					
Assessed By								
Days After First/Last Applic.	42 18	42 18	42 18	42 18	42 18	42 18		
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B		
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1		
Days After Emergence	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	7	8	9	10	11	12
6 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 202	35.0	99.0	99.0	0.0	3.0	0.0
SL-573 (400 SL)	0.57 oz ai/a	B 501	30.0	99.0	99.0	0.0	6.0	5.0
Atrazine	0.875 lb ai/a	B 802	80.0	99.0	99.0	0.0	0.0	0.0
Zidua (85 WG)	2.55 oz ai/a	B 1005	60.0	99.0	99.0	0.0	0.0	6.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			51.3	99.0	99.0	0.0	2.3	2.8
7 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 204	60.0	99.0	99.0	0.0	0.0	0.0
SL-573 (400 SL)	0.57 oz ai/a	B 401	20.0	99.0	99.0	5.0	5.0	7.0
Atrazine	0.875 lb ai/a	B 601	30.0	99.0	99.0	0.0	7.0	6.0
SL-950 (40 SL)	0.0313 lb ai/a	B 902	50.0	99.0	99.0	3.0	4.0	0.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			40.0	99.0	99.0	2.0	4.0	3.3
8 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 205	70.0	99.0	99.0	6.0	9.0	8.0
SL-573 (400 SL)	0.57 oz ai/a	B 305	80.0	99.0	99.0	7.0	10.0	10.0
Atrazine	0.875 lb ai/a	B 604	75.0	99.0	99.0	7.0	7.0	9.0
Steadfast Q (37.7 WG)	0.565 oz ai/a	B 1004	60.0	99.0	99.0	0.0	5.0	0.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			71.3	99.0	99.0	5.0	7.8	6.8
9 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 301	50.0	99.0	99.0	0.0	0.0	0.0
SL-573 (400 SL)	0.417 oz ai/a	B 304	40.0	99.0	99.0	0.0	4.0	5.0
Atrazine	0.875 lb ai/a	B 701	50.0	99.0	99.0	0.0	3.0	5.0
Status (56 SG)	2.8 oz ai/a	B 1001	75.0	99.0	99.0	0.0	3.0	0.0
MSO	0.5 % v/v	B						
28% UAN	2.5 % v/v	B						
Mean =			53.8	99.0	99.0	0.0	2.5	2.5
10 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 302	65.0	99.0	99.0	5.0	0.0	0.0
Callisto (4.0 SC)	1.5 oz ai/a	B 504	20.0	99.0	99.0	3.0	5.0	6.0
Atrazine	0.875 lb ai/a	B 801	70.0	99.0	99.0	5.0	4.0	3.0
COC	1 % v/v	B 1002	20.0	99.0	99.0	0.0	5.0	4.0
28% UAN	2.5 % v/v	B						
Mean =			43.8	99.0	99.0	3.3	3.5	3.3

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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	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BCH 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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYNLS	PHYLMA
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	V6	V6	V6	V6	V6
Pest Stage Majority	4-40"	1-6"	1-3"			
Pest Density, Unit	2 FT2	3 FT2	1 YD2			
Assessed By						
Days After First/Last Applic.	42 18	42 18	42 18	42 18	42 18	42 18
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	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	7	8	9	10
11 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 103	0.0	99.0	99.0	0.0
Impact (2.8 SC)	0.35 oz ai/a	B 303	0.0	99.0	99.0	0.0
Atrazine	0.875 lb ai/a	B 603	60.0	99.0	99.0	0.0
MSO	0.5 % v/v	B 803	0.0	99.0	99.0	5.0
28% UAN	2.5 % v/v	B				5.0
	Mean =		15.0	99.0	99.0	1.3
12 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 203	0.0	95.0	0.0	0.0
Atrazine	1 lb ai/a	B 403	0.0	75.0	0.0	3.0
MSO	0.5 % v/v	B 703	0.0	95.0	0.0	0.0
28% UAN	2.5 % v/v	B 903	60.0	99.0	75.0	3.0
	Mean =		15.0	91.0	18.8	1.5
						0.8
						0.0

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Pest Type			W Weed	W Weed	W Weed			W Weed		
Pest Code			AMBTR	SETFA	CHEAL			AMBTR		
Pest Scientific Name			Ambrosia trifi>	Setaria faberi	Chenopodium al>			Ambrosia trifi>		
Pest Name			Giant ragweed	Giant foxtail	Common lambsqu>			Giant ragweed		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCB 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-16-2014	Jul-2-2014	Jul-2-2014			Jul-2-2014		
Rating Type			PHYCHL	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			V6	V8	V8			V8		
Pest Stage Majority				5-72"	1-15"			2-4"		
Pest Density, Unit				2 FT2	3 FT2			1 YD2		
Assessed By										
Days After First/Last Applic.	42	18	58	34	58	34	58	34		
Trt-Eval Interval	18	DA-B	34	DA-B	34	DA-B	34	DA-B		
Plant-Eval Interval	42	DP-1	58	DP-1	58	DP-1	58	DP-1		
Days After Emergence	35	DE-1	51	DE-1	51	DE-1	51	DE-1		
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	Plot	13	14	15	16	17	18
1 Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0
				405	0.0	0.0	0.0	0.0	0.0	0.0
				702	0.0	0.0	0.0	0.0	0.0	0.0
				805	0.0	0.0	0.0	0.0	0.0	0.0
				Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		102	0.0	0.0	70.0	0.0	0.0	0.0
				404	0.0	0.0	99.0	0.0	0.0	0.0
				602	0.0	20.0	99.0	0.5*	4.0	0.0
				804	0.0	0.0	99.0	0.0	10.0	10.0
				Mean =	0.0	5.0	91.8	0.1	3.5	2.5
3 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		104	0.0	20.0	99.0	99.0	0.0	0.0
SL-573 (400 SL)	0.417 oz ai/a	B		502	0.0	30.0	80.0	99.0	4.0	10.0
Atrazine	1 lb ai/a	B		704	4.0	65.0	99.0	99.0	4.0	20.0
MSO	0.5 % v/v	B		901	3.0	10.0	99.0	99.0	5.0	0.0
28% UAN	2.5 % v/v	B								
				Mean =	1.8	31.3	94.3	99.0	3.3	7.5
4 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		105	0.0	50.0	99.0	99.0	0.0	20.0
SL-573 (400 SL)	0.57 oz ai/a	B		402	0.0	40.0	99.0	99.0	0.0	10.0
Atrazine	1 lb ai/a	B		605	0.0	40.0	99.0	99.0	0.0	20.0
MSO	0.5 % v/v	B		904	0.0	30.0	99.0	99.0	0.0	20.0
28% UAN	2.5 % v/v	B								
				Mean =	0.0	40.0	99.0	99.0	0.0	17.5
5 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		201	0.0	50.0	99.0	99.0	5.0	40.0
SL-573 (400 SL)	0.417 oz ai/a	B		505	0.0	50.0	99.0	99.0	6.0	30.0
Atrazine	0.875 lb ai/a	B		705	0.0	65.0	99.0	99.0	4.0	50.0
Dual II Magnum (7.64 EC)	1.91 lb ai/a	B		905	0.0	95.0	99.0	99.0	0.0	70.0
MSO	0.5 % v/v	B								
AMS - Liquid	17 lb ai/100 gal	B								
				Mean =	0.0	65.0	99.0	99.0	3.8	47.5

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Pest Type		W Weed	W Weed	W Weed		W Weed		
Pest Code		AMBTR	SETFA	CHEAL		AMBTR		
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>		Ambrosia trifi>		
Pest Name		Giant ragweed	Giant foxtail	Common lambsqu>		Giant ragweed		
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-16-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-15-2014		
Rating Type	PHYCHL	CONTRO	CONTRO	CONTRO	PHYSTU	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	V8	V8	V8	V8	SILKING		
Pest Stage Majority		5-72"	1-15"	2-4"		4-86		
Pest Density, Unit		2 FT2	3 FT2	1 YD2		2 FT2		
Assessed By								
Days After First/Last Applic.	42 18	58 34	58 34	58 34	58 34	71 47		
Trt-Eval Interval	18 DA-B	34 DA-B	34 DA-B	34 DA-B	34 DA-B	47 DA-B		
Plant-Eval Interval	42 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1	71 DP-1		
Days After Emergence	35 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1	64 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	13	14	15	16	17	18
6 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 202	0.0	40.0	99.0	99.0	0.0	0.0
SL-573 (400 SL)	0.57 oz ai/a	B 501	0.0	30.0	99.0	99.0	0.0	20.0
Atrazine	0.875 lb ai/a	B 802	0.0	40.0	99.0	99.0	0.0	60.0
Zidua (85 WG)	2.55 oz ai/a	B 1005	0.0	50.0	99.0	99.0	0.0	30.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal B							
Mean =			0.0	40.0	99.0	99.0	0.0	27.5
7 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 204	0.0	60.0	99.0	99.0	5.0	30.0
SL-573 (400 SL)	0.57 oz ai/a	B 401	0.0	10.0	99.0	99.0	0.0	10.0
Atrazine	0.875 lb ai/a	B 601	0.0	40.0	99.0	99.0	5.0	20.0
SL-950 (40 SL)	0.0313 lb ai/a	B 902	0.0	0.0	99.0	99.0	4.0	20.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal B							
Mean =			0.0	27.5	99.0	99.0	3.5	20.0
8 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 205	10.0	60.0	99.0	99.0	6.0	30.0
SL-573 (400 SL)	0.57 oz ai/a	B 305	10.0	65.0	99.0	99.0	10.0	50.0
Atrazine	0.875 lb ai/a	B 604	7.0	60.0	99.0	99.0	5.0	20.0
Steadfast Q (37.7 WG)	0.565 oz ai/a	B 1004	0.0	55.0	99.0	99.0	9.0	50.0
MSO	0.5 % v/v	B						
AMS - Liquid	17 lb ai/100 gal B							
Mean =			6.8	60.0	99.0	99.0	7.5	37.5
9 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 301	0.0	60.0	99.0	99.0	0.0	30.0
SL-573 (400 SL)	0.417 oz ai/a	B 304	4.0	70.0	99.0	99.0	0.0	50.0
Atrazine	0.875 lb ai/a	B 701	0.0	20.0	99.0	99.0	6.0	40.0
Status (56 SG)	2.8 oz ai/a	B 1001	0.0	90.0	99.0	99.0	5.0	80.0
MSO	0.5 % v/v	B						
28% UAN	2.5 % v/v	B						
Mean =			1.0	60.0	99.0	99.0	2.8	50.0
10 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 302	4.0	85.0	85.0	99.0	5.0	50.0
Callisto (4.0 SC)	1.5 oz ai/a	B 504	7.0	85.0	99.0	99.0	4.0	60.0
Atrazine	0.875 lb ai/a	B 801	0.0	50.0	99.0	99.0	0.0	30.0
COC	1 % v/v	B 1002	6.0	70.0	99.0	99.0	5.0	40.0
28% UAN	2.5 % v/v	B						
Mean =			4.3	72.5	95.5	99.0	3.5	45.0

Purdue University

Pest Type		W Weed	W Weed	W Weed		W Weed
Pest Code		AMBTR	SETFA	CHEAL		AMBTR
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>		Ambrosia trifi>
Pest Name		Giant ragweed	Giant foxtail	Common lambsqu>		Giant ragweed
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BCH 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-16-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-15-2014
Rating Type	PHYCHL	CONTRO	CONTRO	CONTRO	PHYSTU	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	V8	V8	V8	V8	SILKING
Pest Stage Majority		5-72"	1-15"	2-4"		4-86
Pest Density, Unit		2 FT2	3 FT2	1 YD2		2 FT2
Assessed By						
Days After First/Last Applic.	42 18	58 34	58 34	58 34	58 34	71 47
Trt-Eval Interval	18 DA-B	34 DA-B	34 DA-B	34 DA-B	34 DA-B	47 DA-B
Plant-Eval Interval	42 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1	71 DP-1
Days After Emergence	35 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1	64 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
11 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 103	0.0	20.0	99.0	99.0
Impact (2.8 SC)	0.35 oz ai/a	B 303	0.0	10.0	90.0	99.0
Atrazine	0.875 lb ai/a	B 603	0.0	50.0	99.0	99.0
MSO	0.5 % v/v	B 803	0.0	20.0	99.0	85.0
28% UAN	2.5 % v/v	B				5.0
	Mean =		0.0	25.0	96.8	95.5
						1.3
						15.0
12 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 203	0.0	0.0	99.0	0.0
Atrazine	1 lb ai/a	B 403	0.0	0.0	99.0	0.0
MSO	0.5 % v/v	B 703	0.0	0.0	99.0	0.0
28% UAN	2.5 % v/v	B 903	0.0	20.0	99.0	0.0*
	Mean =		0.0	5.0	99.0	0.0
						7.0
						7.5

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Pest Type				W Weed	
Pest Code				SETFA	
Pest Scientific Name				Setaria faberi	
Pest Name				Giant foxtail	
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				SILKING	
Pest Stage Majority				6-20	
Pest Density, Unit				3 FT2	
Assessed By					
Days After First/Last Applic.				71 47	
Trt-Eval Interval				47 DA-B	
Plant-Eval Interval				71 DP-1	
Days After Emergence				64 DE-1	
Trt No.	Treatment Name	Rate	Appl Code	Plot	
		Rate Unit			19
1	Untreated Check			101	0.0
				405	0.0
				702	0.0
				805	0.0
				Mean =	0.0
2	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	102	99.0
				404	99.0
				602	99.0
				804	99.0
				Mean =	99.0
3	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	104	99.0
	SL-573 (400 SL)	0.417 oz ai/a	B	502	99.0
	Atrazine	1 lb ai/a	B	704	99.0
	MSO	0.5 % v/v	B	901	99.0
	28% UAN	2.5 % v/v	B		
				Mean =	99.0
4	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	105	99.0
	SL-573 (400 SL)	0.57 oz ai/a	B	402	99.0
	Atrazine	1 lb ai/a	B	605	99.0
	MSO	0.5 % v/v	B	904	99.0
	28% UAN	2.5 % v/v	B		
				Mean =	99.0
5	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	201	99.0
	SL-573 (400 SL)	0.417 oz ai/a	B	505	99.0
	Atrazine	0.875 lb ai/a	B	705	99.0
	Dual II Magnum (7.64 EC)	1.91 lb ai/a	B	905	99.0
	MSO	0.5 % v/v	B		
	AMS - Liquid	17 lb ai/100 gal	B		
				Mean =	99.0

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Pest Type					W Weed
Pest Code					SETFA
Pest Scientific Name					Setaria faberi
Pest Name					Giant foxtail
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					SILKING
Pest Stage Majority					6-20
Pest Density, Unit					3 FT2
Assessed By					
Days After First/Last Applic.					71 47
Trt-Eval Interval					47 DA-B
Plant-Eval Interval					71 DP-1
Days After Emergence					64 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot			
					19
6 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 202	99.0		
SL-573 (400 SL)	0.57 oz ai/a	B 501	99.0		
Atrazine	0.875 lb ai/a	B 802	99.0		
Zidua (85 WG)	2.55 oz ai/a	B 1005	99.0		
MSO	0.5 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			
Mean =					99.0
7 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 204	99.0		
SL-573 (400 SL)	0.57 oz ai/a	B 401	99.0		
Atrazine	0.875 lb ai/a	B 601	99.0		
SL-950 (40 SL)	0.0313 lb ai/a	B 902	99.0		
MSO	0.5 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			
Mean =					99.0
8 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 205	99.0		
SL-573 (400 SL)	0.57 oz ai/a	B 305	99.0		
Atrazine	0.875 lb ai/a	B 604	99.0		
Steadfast Q (37.7 WG)	0.565 oz ai/a	B 1004	99.0		
MSO	0.5 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			
Mean =					99.0
9 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 301	90.0		
SL-573 (400 SL)	0.417 oz ai/a	B 304	99.0		
Atrazine	0.875 lb ai/a	B 701	99.0		
Status (56 SG)	2.8 oz ai/a	B 1001	98.0		
MSO	0.5 % v/v	B			
28% UAN	2.5 % v/v	B			
Mean =					96.5
10 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 302	70.0		
Callisto (4.0 SC)	1.5 oz ai/a	B 504	99.0		
Atrazine	0.875 lb ai/a	B 801	99.0		
COC	1 % v/v	B 1002	80.0		
28% UAN	2.5 % v/v	B			
Mean =					87.0

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Pest Type	W Weed				
Pest Code	SETFA				
Pest Scientific Name	Setaria faberi				
Pest Name	Giant foxtail				
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	SILKING				
Pest Stage Majority	6-20				
Pest Density, Unit	3 FT2				
Assessed By					
Days After First/Last Applic.	71 47				
Trt-Eval Interval	47 DA-B				
Plant-Eval Interval	71 DP-1				
Days After Emergence	64 DE-1				
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	19		
11 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 103	99.0		
Impact (2.8 SC)	0.35 oz ai/a	B 303	99.0		
Atrazine	0.875 lb ai/a	B 603	80.0		
MSO	0.5 % v/v	B 803	95.0		
28% UAN	2.5 % v/v	B			
		Mean =	93.3		
12 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A 203	99.0		
Atrazine	1 lb ai/a	B 403	99.0		
MSO	0.5 % v/v	B 703	99.0		
28% UAN	2.5 % v/v	B 903	99.0		
		Mean =	99.0		

Purdue University

SL-573 for Weed Control in Non RR/LL Corn

Trial ID: 14S-THP-CTC-09 Protocol ID: 14S-THP-CTC-09
 Location: Throckmorton Study Director:
 Project ID: 14-US-H-2-CG Non RR Univ Investigator: Dr. Bill Johnson
 Sponsor Contact: ISK - Dennis Tonks

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

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYNLS = phytotoxicity - necrosis, leaf spot
 PHYCHL = phytotoxicity - chlorosis
 PHYSTU = phytotoxicity - stunting
 PHYLMA = phytotoxicity - leaf malformation

Rating Unit

% = percent

PLOT = total plot

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

31 DP-1 = 1 ZEAMD May-5-2014
 42 DP-1 = 1 ZEAMD May-5-2014
 58 DP-1 = 1 ZEAMD May-5-2014
 71 DP-1 = 1 ZEAMD May-5-2014

Purdue University

SL-573 for Weed Control in Non RR/LL Corn

Trial ID: 14S-THP-CTC-09 Protocol ID: 14S-THP-CTC-09
 Location: Throckmorton Study Director:
 Project ID: 14-US-H-2-CG Non RR Univ Investigator: Dr. Bill Johnson
 Sponsor Contact: ISK - Dennis Tonks

Pest Type	W Weed	W Weed	W Weed				W Weed			
Pest Code	SETFA	AMBTR	CHEAL				AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>				Ambrosia trifi>			
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>				Giant ragweed			
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-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-16-2014			
Rating Type	CONTRO	CONTRO	CONTRO	PHYNLS	PHYCHL	PHYSTU	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	V4	V4	V4	V4	V4	V4	V6			
Pest Stage Majority	1-2"	2-5"	1-2"				4-40"			
Pest Density, Unit	2 YD2	4 FT2	3 YD2				2 FT2			
Assessed By	GT	GT	GT	GT	GT	GT	GT			
Days After First/Last Applic.	31 7	31 7	31 7	31 7	31 7	31 7	42 18			
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	18 DA-B			
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	42 DP-1			
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	35 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 c	0.0 b	0.0 b	0.0 a	0.0 c
2 Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	0.0 b	26.3 b	0.0 b	0.0 b	0.0 a	0.0 c
3 Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	81.3 a	99.0 a	3.3 b	0.0 b	0.0 a	38.8 abc
SL-573 (400 SL)	0.417 oz ai/a		B							
Atrazine	1 lb ai/a		B							
MSO	0.5 % v/v		B							
28% UAN	2.5 % v/v		B							
4 Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	55.0 a	99.0 a	3.0 b	0.0 b	0.0 a	57.5 ab
SL-573 (400 SL)	0.57 oz ai/a		B							
Atrazine	1 lb ai/a		B							
MSO	0.5 % v/v		B							
28% UAN	2.5 % v/v		B							
5 Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	80.5 a	99.0 a	2.5 b	0.0 b	0.0 a	56.3 ab
SL-573 (400 SL)	0.417 oz ai/a		B							
Atrazine	0.875 lb ai/a		B							
Dual II Magnum (7.64 EC)	1.91 lb ai/a		B							
MSO	0.5 % v/v		B							
AMS - Liquid	17 lb ai/100 gal		B							
6 Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	65.0 a	99.0 a	1.0 b	0.0 b	0.0 a	51.3 ab
SL-573 (400 SL)	0.57 oz ai/a		B							
Atrazine	0.875 lb ai/a		B							
Zidua (85 WG)	2.55 oz ai/a		B							
MSO	0.5 % v/v		B							
AMS - Liquid	17 lb ai/100 gal		B							
7 Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	60.0 a	99.0 a	2.5 b	0.0 b	0.0 a	40.0 abc
SL-573 (400 SL)	0.57 oz ai/a		B							
Atrazine	0.875 lb ai/a		B							
SL-950 (40 SL)	0.0313 lb ai/a		B							
MSO	0.5 % v/v		B							
AMS - Liquid	17 lb ai/100 gal		B							

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.

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Pest Type	W Weed	W Weed	W Weed			W Weed			
Pest Code	SETFA	AMBTR	CHEAL			AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>			Ambrosia trifi>			
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>			Giant ragweed			
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-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-5-2014	Jun-16-2014			
Rating Type	CONTRO	CONTRO	CONTRO	PHYNLS	PHYCHL	PHYSTU			
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	V4	V4	V4	V4	V4	V4			
Pest Stage Majority	1-2"	2-5"	1-2"						
Pest Density, Unit	2 YD2	4 FT2	3 YD2			2 FT2			
Assessed By	GT	GT	GT	GT	GT	GT			
Days After First/Last Applic.	31 7	31 7	31 7	31 7	31 7	42 18			
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	18 DA-B			
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	42 DP-1			
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1	35 DE-1			
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
8 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	65.0 a	99.0 a	7.0 a	2.0 b	2.5 a	71.3 a
SL-573 (400 SL)	0.57 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
Steadfast Q (37.7 WG)	0.565 oz ai/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
9 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	75.0 a	99.0 a	2.0 b	0.0 b	0.0 a	53.8 ab
SL-573 (400 SL)	0.417 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
Status (56 SG)	2.8 oz ai/a	B							
MSO	0.5 % v/v	B							
28% UAN	2.5 % v/v	B							
10 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	57.5 a	99.0 a	3.8 b	7.0 a	0.0 a	43.8 ab
Callisto (4.0 SC)	1.5 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
COC	1 % v/v	B							
28% UAN	2.5 % v/v	B							
11 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	57.5 a	99.0 a	0.8 b	0.0 b	0.0 a	15.0 bc
Impact (2.8 SC)	0.35 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
MSO	0.5 % v/v	B							
28% UAN	2.5 % v/v	B							
12 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	12.5 b	12.5 bc	0.5 b	0.0 b	0.0 a	15.0 bc
Atrazine	1 lb ai/a	B							
MSO	0.5 % v/v	B							
28% UAN	2.5 % v/v	B							
LSD (P=.05)			0.00	18.87	18.55	2.59	2.58	2.08	27.52
Standard Deviation			0.00	13.07	12.85	1.79	1.78	1.44	19.06
CV			0.0	25.74	16.58	81.87	237.84	692.82	51.68
Bartlett's X2			0.0	8.818	0.874	21.365	0.089	0.0	6.413
P(Bartlett's X2)			.	0.454	0.35	0.011*	0.765	.	0.698
Replicate F			0.000	3.460	0.455	0.769	1.152	1.000	3.902
Replicate Prob(F)			1.0000	0.0273	0.7153	0.5199	0.3426	0.4051	0.0172
Treatment F			0.000	20.485	37.471	4.933	5.286	1.000	6.218
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0002	0.0001	0.4671	0.0001

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Trt	Treatment	Rate	Unit	Appl	8	9	10	11	12	13	14
No.	Name	Rate	Unit	Code							
1	Untreated Check				0.0 c	0.0 b	0.0 a	0.0 b	0.0 a	0.0 b	0.0 c
2	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	86.3 b	17.5 b	0.8 a	0.0 b	0.0 a	0.0 b	5.0 c
3	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	1.5 a	3.3 ab	3.0 a	1.8 b	31.3 bc
	SL-573 (400 SL)	0.417 oz ai/a		B							
	Atrazine	1 lb ai/a		B							
	MSO	0.5 % v/v		B							
	28% UAN	2.5 % v/v		B							
4	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	1.3 a	1.5 b	2.5 a	0.0 b	40.0 abc
	SL-573 (400 SL)	0.57 oz ai/a		B							
	Atrazine	1 lb ai/a		B							
	MSO	0.5 % v/v		B							
	28% UAN	2.5 % v/v		B							
5	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	4.0 a	4.3 ab	4.0 a	0.0 b	65.0 ab
	SL-573 (400 SL)	0.417 oz ai/a		B							
	Atrazine	0.875 lb ai/a		B							
	Dual II Magnum (7.64 EC)	1.91 lb ai/a		B							
	MSO	0.5 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							
6	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	0.0 a	2.3 b	2.8 a	0.0 b	40.0 abc
	SL-573 (400 SL)	0.57 oz ai/a		B							
	Atrazine	0.875 lb ai/a		B							
	Zidua (85 WG)	2.55 oz ai/a		B							
	MSO	0.5 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							
7	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	2.0 a	4.0 ab	3.3 a	0.0 b	27.5 bc
	SL-573 (400 SL)	0.57 oz ai/a		B							
	Atrazine	0.875 lb ai/a		B							
	SL-950 (40 SL)	0.0313 lb ai/a		B							
	MSO	0.5 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							

Purdue University

Pest Type	W Weed	W Weed					W Weed		
Pest Code	SETFA	CHEAL					AMBTR		
Pest Scientific Name	Setaria faberi	Chenopodium al>					Ambrosia trifi>		
Pest Name	Giant foxtail	Common lambsqu>					Giant ragweed		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCB 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-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-2-2014		
Rating Type	CONTRO	CONTRO	PHYSTU	PHYNLS	PHYLMA	PHYCHL	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	V6	V6	V6	V6	V6	V8		
Pest Stage Majority	1-6"	1-3"					5-72"		
Pest Density, Unit	3 FT2	1 YD2					2 FT2		
Assessed By									
Days After First/Last Applic.	42 18	42 18	42 18	42 18	42 18	42 18	58 34		
Trt-Eval Interval	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	18 DA-B	34 DA-B		
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1	58 DP-1		
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	51 DE-1		
Trt Treatment	Rate	Appl	8	9	10	11	12	13	14
No. Name	Rate Unit	Code							
8 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	99.0 a	5.0 a	7.8 a	6.8 a	6.8 a	60.0 ab
SL-573 (400 SL)	0.57 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
Steadfast Q (37.7 WG)	0.565 oz ai/a	B							
MSO	0.5 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
9 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	99.0 a	0.0 a	2.5 b	2.5 a	1.0 b	60.0 ab
SL-573 (400 SL)	0.417 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
Status (56 SG)	2.8 oz ai/a	B							
MSO	0.5 % v/v	B							
28% UAN	2.5 % v/v	B							
10 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	99.0 a	3.3 a	3.5 ab	3.3 a	4.3 ab	72.5 a
Callisto (4.0 SC)	1.5 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
COC	1 % v/v	B							
28% UAN	2.5 % v/v	B							
11 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	99.0 a	99.0 a	1.3 a	2.5 b	1.8 a	0.0 b	25.0 bc
Impact (2.8 SC)	0.35 oz ai/a	B							
Atrazine	0.875 lb ai/a	B							
MSO	0.5 % v/v	B							
28% UAN	2.5 % v/v	B							
12 Dual II Magnum (7.64 EC)	25.5 oz ai/a	A	91.0 ab	18.8 b	1.5 a	0.8 b	0.0 a	0.0 b	5.0 c
Atrazine	1 lb ai/a	B							
MSO	0.5 % v/v	B							
28% UAN	2.5 % v/v	B							
LSD (P=.05)			5.36	21.70	2.92	3.29	4.12	2.68	25.79
Standard Deviation			3.71	15.03	2.02	2.28	2.85	1.85	17.86
CV			4.17	19.45	118.21	84.75	115.1	161.75	49.7
Bartlett's X2			0.391	0.014	2.783	3.535	1.963	2.966	16.393
P(Bartlett's X2)			0.532	0.906	0.947	0.939	0.982	0.397	0.089
Replicate F			1.617	0.648	0.688	1.450	3.728	0.669	0.202
Replicate Prob(F)			0.2042	0.5899	0.5659	0.2461	0.0206	0.5770	0.8943
Treatment F			233.449	27.715	2.562	3.550	1.834	5.498	7.742
Treatment Prob(F)			0.0001	0.0001	0.0181	0.0023	0.0878	0.0001	0.0001

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Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19
1	Untreated Check				0.0 b	0.0 b	0.0 b	0.0 e	0.0 b
2	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	91.8 a	0.1 b	3.5 ab	2.5 e	99.0 a
3	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	94.3 a	99.0 a	3.3 ab	7.5 e	99.0 a
	SL-573 (400 SL)	0.417 oz ai/a		B					
	Atrazine	1 lb ai/a		B					
	MSO	0.5 % v/v		B					
	28% UAN	2.5 % v/v		B					
4	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	0.0 b	17.5 cde	99.0 a
	SL-573 (400 SL)	0.57 oz ai/a		B					
	Atrazine	1 lb ai/a		B					
	MSO	0.5 % v/v		B					
	28% UAN	2.5 % v/v		B					
5	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	3.8 ab	47.5 ab	99.0 a
	SL-573 (400 SL)	0.417 oz ai/a		B					
	Atrazine	0.875 lb ai/a		B					
	Dual II Magnum (7.64 EC)	1.91 lb ai/a		B					
	MSO	0.5 % v/v		B					
	AMS - Liquid	17 lb ai/100 gal		B					
6	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	0.0 b	27.5 a-e	99.0 a
	SL-573 (400 SL)	0.57 oz ai/a		B					
	Atrazine	0.875 lb ai/a		B					
	Zidua (85 WG)	2.55 oz ai/a		B					
	MSO	0.5 % v/v		B					
	AMS - Liquid	17 lb ai/100 gal		B					
7	Dual II Magnum (7.64 EC)	25.5 oz ai/a		A	99.0 a	99.0 a	3.5 ab	20.0 b-e	99.0 a
	SL-573 (400 SL)	0.57 oz ai/a		B					
	Atrazine	0.875 lb ai/a		B					
	SL-950 (40 SL)	0.0313 lb ai/a		B					
	MSO	0.5 % v/v		B					
	AMS - Liquid	17 lb ai/100 gal		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	CHEAL		AMBTR					
Pest Scientific Name	Setaria faberi	Chenopodium al>		Ambrosia trifi>					
Pest Name	Giant foxtail	Common lambsqu>		Giant ragweed					
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX					
BBCB Scale	BCOR	BCOR	BCOR	BCOR					
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays					
Crop Name	Corn	Corn	Corn	Corn					
Rating Date	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-15-2014					
Rating Type	CONTRO	CONTRO	PHYSTU	CONTRO					
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	SILKING					
Pest Stage Majority	1-15"	2-4"		4-86					
Pest Density, Unit	3 FT2	1 YD2		2 FT2					
Assessed By									
Days After First/Last Applic.	58 34	58 34	58 34	71 47					
Trt-Eval Interval	34 DA-B	34 DA-B	34 DA-B	47 DA-B					
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	71 DP-1					
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	64 DE-1					
Trt No.	Treatment Name	Rate	Unit	Appl Code	15	16	17	18	19
8	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		99.0 a	99.0 a	7.5 a	37.5 a-d	99.0 a
	SL-573 (400 SL)	0.57 oz ai/a	B						
	Atrazine	0.875 lb ai/a	B						
	Steadfast Q (37.7 WG)	0.565 oz ai/a	B						
	MSO	0.5 % v/v	B						
	AMS - Liquid	17 lb ai/100 gal	B						
9	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		99.0 a	99.0 a	2.8 ab	50.0 a	96.5 a
	SL-573 (400 SL)	0.417 oz ai/a	B						
	Atrazine	0.875 lb ai/a	B						
	Status (56 SG)	2.8 oz ai/a	B						
	MSO	0.5 % v/v	B						
	28% UAN	2.5 % v/v	B						
10	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		95.5 a	99.0 a	3.5 ab	45.0 abc	87.0 a
	Callisto (4.0 SC)	1.5 oz ai/a	B						
	Atrazine	0.875 lb ai/a	B						
	COC	1 % v/v	B						
	28% UAN	2.5 % v/v	B						
11	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		96.8 a	95.5 a	1.3 b	15.0 de	93.3 a
	Impact (2.8 SC)	0.35 oz ai/a	B						
	Atrazine	0.875 lb ai/a	B						
	MSO	0.5 % v/v	B						
	28% UAN	2.5 % v/v	B						
12	Dual II Magnum (7.64 EC)	25.5 oz ai/a	A		99.0 a	0.0 b	7.0 a	7.5 e	99.0 a
	Atrazine	1 lb ai/a	B						
	MSO	0.5 % v/v	B						
	28% UAN	2.5 % v/v	B						
LSD (P=.05)					7.93	3.01	3.48	19.50	7.40
Standard Deviation					5.49	2.08	2.41	13.51	5.12
CV					6.15	2.82	80.37	58.4	5.75
Bartlett's X2					3.929	0.0	3.85	12.691	3.571
P(Bartlett's X2)					0.269	.	0.87	0.241	0.168
Replicate F					1.265	0.963	1.214	2.753	0.784
Replicate Prob(F)					0.3024	0.4224	0.3201	0.0581	0.5114
Treatment F					105.634	1831.699	4.238	7.131	121.927
Treatment Prob(F)					0.0001	0.0001	0.0006	0.0001	0.0001

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SL-573 for Weed Control in Non RR/LL Corn

Trial ID: 14S-THP-CTC-09 Protocol ID: 14S-THP-CTC-09
 Location: Throckmorton Study Director:
 Project ID: 14-US-H-2-CG Non RR Univ Investigator: Dr. Bill Johnson
 Sponsor Contact: ISK - Dennis Tonks

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

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYNLS = phytotoxicity - necrosis, leaf spot
 PHYCHL = phytotoxicity - chlorosis
 PHYSTU = phytotoxicity - stunting
 PHYLMA = phytotoxicity - leaf malformation

Rating Unit

% = percent

PLOT = total plot

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

31 DP-1 = 1 ZEAMD May-5-2014
 42 DP-1 = 1 ZEAMD May-5-2014
 58 DP-1 = 1 ZEAMD May-5-2014
 71 DP-1 = 1 ZEAMD May-5-2014