

**Evaluation of topyrilate (SL-573) for weed control in corn**

Trial ID: C07-16 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus T-17 Investigator: Christy Sprague

**Planting Date:** May-18-2016 **Row Spacing:** 30 IN  
**Variety:** DKC49-72 **No. of Reps:** 3  
**Population:** 32000 seeds/A **% OM:** 2.8  
**Soil Type:** L loam **pH:** 6.2  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plowed; spring soil finished twice  
**Fertilizer:** 300 lb urea incorporated 200 lb 19-19-19 starter

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambsquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

**Application Description**

	A	B	C
<b>Application Timing:</b>	PRE	EPOS	POST
<b>Date Treated:</b>	May-18-2016	Jun-9-2016	Jun-13-2016
<b>Time Treated:</b>	7:00 PM	10:15 AM	11:00 AM
<b>% Cloud Cover:</b>	40	90	50
<b>Air Temp., Unit:</b>	62 F	66 F	66 F
<b>% Relative Humidity:</b>	38	40	47
<b>Wind Speed/Unit/Dir:</b>	4 mph E	4 mph SW	4 mph SE
<b>Soil Temp, Unit:</b>	52 F	62 F	70 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5	5
<b>Soil Moist:</b>	4	4	4

**Crop Stage at Each Application**

	A	B	C
<b>Crop 1 Name:</b>	ZEAMX	ZEAMX	ZEAMX
<b>Height:</b>		12 "	16 "
<b>Stage:</b>		V4	V5

**Weed Stage at Each Application**

	A	B	C
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR
<b>Height:</b>		3 "	5-6 " (5)
<b>Stage:</b>		4L	4-5L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height:</b>		2-3 " (2)	1.5-2 " (2)
<b>Stage:</b>		2L	4-6L
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO
<b>Height:</b>		2 "	2-3 " (2)
<b>Stage:</b>		2L	6-8L
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL
<b>Height:</b>		3 "	2-3 " (3)
<b>Stage:</b>		2L	4-6L
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH
<b>Height:</b>		3 "	2 "
<b>Stage:</b>		2L	4L

**Application Equipment**

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	AIXR	11003	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 mph	AIXR	11003	28 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	Jun-14-2016	Jun-14-2016	Jun-14-2016	Jun-14-2016	Jun-14-2016	Jun-14-2016
Rating Type	Injury	control	control	control	control	control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Dual II Magnum	1.33	pt/a	A	0	93	37	100	30	0
1	Tolpyralate (SL-573)	1	fl oz/a	C						
1	Atrazine	1.1	lb/a	C						
1	MSO	1	% v/v	C						
1	AMS	8.5	lb/100 gal	C						
2	Dual II Magnum	1.33	pt/a	A	0	93	37	92	40	0
2	Tolpyralate (SL-573)	1.37	fl oz/a	C						
2	Atrazine	1.1	lb/a	C						
2	MSO	1	% v/v	C						
2	AMS	8.5	lb/100 gal	C						
3	Dual II Magnum	1.33	pt/a	A	0	94	33	92	47	0
3	Impact	1	fl oz/a	C						
3	Atrazine	1.1	lb/a	C						
3	MSO	1	% v/v	C						
3	AMS	8.5	lb/100 gal	C						
4	Dual II Magnum	1.33	pt/a	A	0	93	37	97	37	0
4	Callisto	3	fl oz/a	C						
4	Atrazine	1.1	lb/a	C						
4	MSO	1	% v/v	C						
4	AMS	8.5	lb/100 gal	C						
5	Untreated				0	0	0	0	0	0
6	Tolpyralate (SL-573)	1	fl oz/a	B						
6	MSO	1	% v/v	B						
6	AMS	8.5	lb/100 gal	B						
7	Tolpyralate (SL-573)	1	fl oz/a	B						
7	Atrazine	1.1	lb/a	B						
7	MSO	1	% v/v	B						
7	AMS	8.5	lb/100 gal	B						
8	Tolpyralate (SL-573)	1.37	fl oz/a	B						
8	MSO	1	% v/v	B						
8	AMS	8.5	lb/100 gal	B						
9	Tolpyralate (SL-573)	1.37	fl oz/a	B						
9	Atrazine	1.1	lb/a	B						
9	MSO	1	% v/v	B						
9	AMS	8.5	lb/100 gal	B						

Missing data estimates are included in columns: Average=25,26,27

Could not calculate LSD (% mean diff) for columns 1,6,16,17,19,22,23 because error mean square = 0.

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Investigator: Christy Sprague

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX				
Rating Date	Jun-14-2016	Jun-14-2016	Jun-14-2016	Jun-14-2016	Jun-14-2016
Rating Type	Injury	control	control	control	control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code
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10	Tolpyralate (SL-573)	1 fl oz/a	B
10	Atrazine	1.1 lb/a	B
10	Dual II Magnum	1.33 pt/a	B
10	MSO	1 % v/v	B
10	AMS	8.5 lb/100 gal	B

11	Tolpyralate (SL-573)	1 fl oz/a	B
11	Atrazine	1.1 lb/a	B
11	Surpass NXT	2.25 pt/a	B
11	MSO	1 % v/v	B
11	AMS	8.5 lb/100 gal	B

12	Tolpyralate (SL-573)	1 fl oz/a	B
12	Atrazine	1.1 lb/a	B
12	Status	5 oz/a	B
12	MSO	1 % v/v	B
12	AMS	8.5 lb/100 gal	B

13	Tolpyralate (SL-573)	1 fl oz/a	B
13	Atrazine	1.1 lb/a	B
13	Steadfast Q	1.5 oz/a	B
13	MSO	1 % v/v	B
13	AMS	8.5 lb/100 gal	B

14	Tolpyralate (SL-573)	1 fl oz/a	B
14	Atrazine	1.1 lb/a	B
14	Roundup PowerMax	22 fl oz/a	B
14	MSO	1 % v/v	B
14	AMS	8.5 lb/100 gal	B

15	Impact	1 fl oz/a	B
15	Atrazine	1.1 lb/a	B
15	MSO	1 % v/v	B
15	AMS	8.5 lb/100 gal	B

16	Callisto	3 fl oz/a	B
16	Atrazine	1.1 lb/a	B
16	MSO	1 % v/v	B
16	AMS	8.5 lb/100 gal	B

LSD P=.05	.	7.3	10.6	10.9	17.4	.
Standard Deviation	0.0	3.9	5.6	5.8	9.2	0.0
CV	0.0	5.2	19.63	7.64	30.06	0.0

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZMEAX					
Rating Date	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code						
1	Dual II Magnum	1.33	pt/a	A	0	97	55	100	30	10
1	Tolpyralate (SL-573)	1	fl oz/a	C						
1	Atrazine	1.1	lb/a	C						
1	MSO	1	% v/v	C						
1	AMS	8.5	lb/100 gal	C						
2	Dual II Magnum	1.33	pt/a	A	0	99	53	95	40	10
2	Tolpyralate (SL-573)	1.37	fl oz/a	C						
2	Atrazine	1.1	lb/a	C						
2	MSO	1	% v/v	C						
2	AMS	8.5	lb/100 gal	C						
3	Dual II Magnum	1.33	pt/a	A	0	97	47	97	47	10
3	Impact	1	fl oz/a	C						
3	Atrazine	1.1	lb/a	C						
3	MSO	1	% v/v	C						
3	AMS	8.5	lb/100 gal	C						
4	Dual II Magnum	1.33	pt/a	A	0	99	58	93	37	10
4	Callisto	3	fl oz/a	C						
4	Atrazine	1.1	lb/a	C						
4	MSO	1	% v/v	C						
4	AMS	8.5	lb/100 gal	C						
5	Untreated				0	0	0	0	0	0
6	Tolpyralate (SL-573)	1	fl oz/a	B	0	90	88	100	85	90
6	MSO	1	% v/v	B						
6	AMS	8.5	lb/100 gal	B						
7	Tolpyralate (SL-573)	1	fl oz/a	B	0	100	100	100	100	100
7	Atrazine	1.1	lb/a	B						
7	MSO	1	% v/v	B						
7	AMS	8.5	lb/100 gal	B						
8	Tolpyralate (SL-573)	1.37	fl oz/a	B	0	98	98	100	90	87
8	MSO	1	% v/v	B						
8	AMS	8.5	lb/100 gal	B						
9	Tolpyralate (SL-573)	1.37	fl oz/a	B	0	100	100	100	100	98
9	Atrazine	1.1	lb/a	B						
9	MSO	1	% v/v	B						
9	AMS	8.5	lb/100 gal	B						

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZMEAX					
Rating Date	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016	Jun-16-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code						
10	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	100
10	Atrazine	1.1 lb/a	B						
10	Dual II Magnum	1.33 pt/a	B						
10	MSO	1 % v/v	B						
10	AMS	8.5 lb/100 gal	B						
11	Tolpyralate (SL-573)	1 fl oz/a	B	17	100	100	100	100	100
11	Atrazine	1.1 lb/a	B						
11	Surpass NXT	2.25 pt/a	B						
11	MSO	1 % v/v	B						
11	AMS	8.5 lb/100 gal	B						
12	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	98
12	Atrazine	1.1 lb/a	B						
12	Status	5 oz/a	B						
12	MSO	1 % v/v	B						
12	AMS	8.5 lb/100 gal	B						
13	Tolpyralate (SL-573)	1 fl oz/a	B	13	100	100	100	100	98
13	Atrazine	1.1 lb/a	B						
13	Steadfast Q	1.5 oz/a	B						
13	MSO	1 % v/v	B						
13	AMS	8.5 lb/100 gal	B						
14	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	100
14	Atrazine	1.1 lb/a	B						
14	Roundup PowerMax	22 fl oz/a	B						
14	MSO	1 % v/v	B						
14	AMS	8.5 lb/100 gal	B						
15	Impact	1 fl oz/a	B	0	100	100	100	100	97
15	Atrazine	1.1 lb/a	B						
15	MSO	1 % v/v	B						
15	AMS	8.5 lb/100 gal	B						
16	Callisto	3 fl oz/a	B	0	100	100	100	100	98
16	Atrazine	1.1 lb/a	B						
16	MSO	1 % v/v	B						
16	AMS	8.5 lb/100 gal	B						
LSD P=.05				1.7	6.3	7.7	6.4	9.8	10.9
Standard Deviation				1.0	3.8	4.6	3.8	5.8	6.5
CV				53.52	4.11	5.71	4.14	7.62	9.41

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Dual II Magnum	1.33	pt/a	A	0	95	97	100	100	97
1	Tolpyralate (SL-573)	1	fl oz/a	C						
1	Atrazine	1.1	lb/a	C						
1	MSO	1	% v/v	C						
1	AMS	8.5	lb/100 gal	C						
2	Dual II Magnum	1.33	pt/a	A	0	100	100	100	100	100
2	Tolpyralate (SL-573)	1.37	fl oz/a	C						
2	Atrazine	1.1	lb/a	C						
2	MSO	1	% v/v	C						
2	AMS	8.5	lb/100 gal	C						
3	Dual II Magnum	1.33	pt/a	A	0	100	100	100	100	98
3	Impact	1	fl oz/a	C						
3	Atrazine	1.1	lb/a	C						
3	MSO	1	% v/v	C						
3	AMS	8.5	lb/100 gal	C						
4	Dual II Magnum	1.33	pt/a	A	0	97	100	100	100	100
4	Callisto	3	fl oz/a	C						
4	Atrazine	1.1	lb/a	C						
4	MSO	1	% v/v	C						
4	AMS	8.5	lb/100 gal	C						
5	Untreated				0	0	0	0	0	0
6	Tolpyralate (SL-573)	1	fl oz/a	B	0	95	93	100	100	100
6	MSO	1	% v/v	B						
6	AMS	8.5	lb/100 gal	B						
7	Tolpyralate (SL-573)	1	fl oz/a	B	0	100	100	100	100	100
7	Atrazine	1.1	lb/a	B						
7	MSO	1	% v/v	B						
7	AMS	8.5	lb/100 gal	B						
8	Tolpyralate (SL-573)	1.37	fl oz/a	B	0	97	99	100	100	100
8	MSO	1	% v/v	B						
8	AMS	8.5	lb/100 gal	B						
9	Tolpyralate (SL-573)	1.37	fl oz/a	B	0	100	100	100	100	100
9	Atrazine	1.1	lb/a	B						
9	MSO	1	% v/v	B						
9	AMS	8.5	lb/100 gal	B						

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Crop Code	ZEAMX					
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
10	Tolpyralate (SL-573)	1 fl oz/a	B		0	100	100	100	100
10	Atrazine	1.1 lb/a	B						
10	Dual II Magnum	1.33 pt/a	B						
10	MSO	1 % v/v	B						
10	AMS	8.5 lb/100 gal	B						
11	Tolpyralate (SL-573)	1 fl oz/a	B		8	100	100	100	100
11	Atrazine	1.1 lb/a	B						
11	Surpass NXT	2.25 pt/a	B						
11	MSO	1 % v/v	B						
11	AMS	8.5 lb/100 gal	B						
12	Tolpyralate (SL-573)	1 fl oz/a	B		0	100	100	100	100
12	Atrazine	1.1 lb/a	B						
12	Status	5 oz/a	B						
12	MSO	1 % v/v	B						
12	AMS	8.5 lb/100 gal	B						
13	Tolpyralate (SL-573)	1 fl oz/a	B		0	100	100	100	100
13	Atrazine	1.1 lb/a	B						
13	Steadfast Q	1.5 oz/a	B						
13	MSO	1 % v/v	B						
13	AMS	8.5 lb/100 gal	B						
14	Tolpyralate (SL-573)	1 fl oz/a	B		0	100	100	100	100
14	Atrazine	1.1 lb/a	B						
14	Roundup PowerMax	22 fl oz/a	B						
14	MSO	1 % v/v	B						
14	AMS	8.5 lb/100 gal	B						
15	Impact	1 fl oz/a	B		0	98	100	100	100
15	Atrazine	1.1 lb/a	B						
15	MSO	1 % v/v	B						
15	AMS	8.5 lb/100 gal	B						
16	Callisto	3 fl oz/a	B		0	98	100	100	95
16	Atrazine	1.1 lb/a	B						
16	MSO	1 % v/v	B						
16	AMS	8.5 lb/100 gal	B						
LSD P=.05					0.7	4.7	4.1	.	3.3
Standard Deviation					0.4	2.8	2.4	0.0	2.0
CV					86.6	3.06	2.62	0.0	2.16

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH		
Crop Code	ZEAMX							ZEAMX
Rating Date	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Oct-24-2016	
Rating Type	injury	control	control	control	control	control	control	test weight
Rating Unit	percent	percent	percent	percent	percent	percent	percent	lbs/bu
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	133 DA-C
Number of Decimals	0	0	0	0	0	0	0	1

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code							
1	Dual II Magnum	1.33 pt/a		A	0	100	100	100	100	100	53.8
1	Tolpyralate (SL-573)	1 fl oz/a		C							
1	Atrazine	1.1 lb/a		C							
1	MSO	1 % v/v		C							
1	AMS	8.5 lb/100 gal		C							
2	Dual II Magnum	1.33 pt/a		A	0	100	100	100	100	100	53.2
2	Tolpyralate (SL-573)	1.37 fl oz/a		C							
2	Atrazine	1.1 lb/a		C							
2	MSO	1 % v/v		C							
2	AMS	8.5 lb/100 gal		C							
3	Dual II Magnum	1.33 pt/a		A	0	100	100	100	100	100	54.2
3	Impact	1 fl oz/a		C							
3	Atrazine	1.1 lb/a		C							
3	MSO	1 % v/v		C							
3	AMS	8.5 lb/100 gal		C							
4	Dual II Magnum	1.33 pt/a		A	0	100	100	100	100	100	53.8
4	Callisto	3 fl oz/a		C							
4	Atrazine	1.1 lb/a		C							
4	MSO	1 % v/v		C							
4	AMS	8.5 lb/100 gal		C							
5	Untreated				0	0	0	0	0	0	53.1
6	Tolpyralate (SL-573)	1 fl oz/a		B	0	98	94	100	100	100	53.8
6	MSO	1 % v/v		B							
6	AMS	8.5 lb/100 gal		B							
7	Tolpyralate (SL-573)	1 fl oz/a		B	0	100	100	100	100	100	54.4
7	Atrazine	1.1 lb/a		B							
7	MSO	1 % v/v		B							
7	AMS	8.5 lb/100 gal		B							
8	Tolpyralate (SL-573)	1.37 fl oz/a		B	0	100	99	100	100	97	54.1
8	MSO	1 % v/v		B							
8	AMS	8.5 lb/100 gal		B							
9	Tolpyralate (SL-573)	1.37 fl oz/a		B	0	99	100	100	100	100	53.1
9	Atrazine	1.1 lb/a		B							
9	MSO	1 % v/v		B							
9	AMS	8.5 lb/100 gal		B							



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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
Crop Code	ZEAMX						ZEAMX
Rating Date	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Oct-24-2016
Rating Type	injury	control	control	control	control	control	test weight
Rating Unit	percent	percent	percent	percent	percent	percent	lbs/bu
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	133 DA-C
Number of Decimals	0	0	0	0	0	0	1

Trt No.	Treatment Name	Rate Unit	Appl Code						
10	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	54.1
10	Atrazine	1.1 lb/a	B						
10	Dual II Magnum	1.33 pt/a	B						
10	MSO	1 % v/v	B						
10	AMS	8.5 lb/100 gal	B						
11	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	53.9
11	Atrazine	1.1 lb/a	B						
11	Surpass NXT	2.25 pt/a	B						
11	MSO	1 % v/v	B						
11	AMS	8.5 lb/100 gal	B						
12	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	54.2
12	Atrazine	1.1 lb/a	B						
12	Status	5 oz/a	B						
12	MSO	1 % v/v	B						
12	AMS	8.5 lb/100 gal	B						
13	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	53.5
13	Atrazine	1.1 lb/a	B						
13	Steadfast Q	1.5 oz/a	B						
13	MSO	1 % v/v	B						
13	AMS	8.5 lb/100 gal	B						
14	Tolpyralate (SL-573)	1 fl oz/a	B	0	100	100	100	100	53.4
14	Atrazine	1.1 lb/a	B						
14	Roundup PowerMax	22 fl oz/a	B						
14	MSO	1 % v/v	B						
14	AMS	8.5 lb/100 gal	B						
15	Impact	1 fl oz/a	B	0	100	100	100	100	53.0
15	Atrazine	1.1 lb/a	B						
15	MSO	1 % v/v	B						
15	AMS	8.5 lb/100 gal	B						
16	Callisto	3 fl oz/a	B	0	99	100	100	100	53.8
16	Atrazine	1.1 lb/a	B						
16	MSO	1 % v/v	B						
16	AMS	8.5 lb/100 gal	B						
LSD P=.05				.	1.4	2.3	.	.	2.4
Standard Deviation				0.0	0.8	1.4	0.0	0.0	1.4
CV				0.0	0.9	1.46	0.0	0.0	1.54

## Evaluation of topyralate (SL-573) for weed control in corn

Trial ID: C07-16

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	ZEAMX	CORN
Rating Date	Oct-24-2016	Oct-24-2016
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	133 DA-C	at 15% M
Number of Decimals	1	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code		
1	Dual II Magnum	1.33	pt/a	A	16.8	244
1	Tolpyralate (SL-573)	1	fl oz/a	C		
1	Atrazine	1.1	lb/a	C		
1	MSO	1	% v/v	C		
1	AMS	8.5	lb/100 gal	C		
2	Dual II Magnum	1.33	pt/a	A	16.8	279
2	Tolpyralate (SL-573)	1.37	fl oz/a	C		
2	Atrazine	1.1	lb/a	C		
2	MSO	1	% v/v	C		
2	AMS	8.5	lb/100 gal	C		
3	Dual II Magnum	1.33	pt/a	A	19.1	259
3	Impact	1	fl oz/a	C		
3	Atrazine	1.1	lb/a	C		
3	MSO	1	% v/v	C		
3	AMS	8.5	lb/100 gal	C		
4	Dual II Magnum	1.33	pt/a	A	18.1	269
4	Callisto	3	fl oz/a	C		
4	Atrazine	1.1	lb/a	C		
4	MSO	1	% v/v	C		
4	AMS	8.5	lb/100 gal	C		
5	Untreated				17.4	194
6	Tolpyralate (SL-573)	1	fl oz/a	B	17.7	280
6	MSO	1	% v/v	B		
6	AMS	8.5	lb/100 gal	B		
7	Tolpyralate (SL-573)	1	fl oz/a	B	19.1	262
7	Atrazine	1.1	lb/a	B		
7	MSO	1	% v/v	B		
7	AMS	8.5	lb/100 gal	B		
8	Tolpyralate (SL-573)	1.37	fl oz/a	B	18.0	263
8	MSO	1	% v/v	B		
8	AMS	8.5	lb/100 gal	B		
9	Tolpyralate (SL-573)	1.37	fl oz/a	B	17.6	270
9	Atrazine	1.1	lb/a	B		
9	MSO	1	% v/v	B		
9	AMS	8.5	lb/100 gal	B		

**Evaluation of topyralate (SL-573) for weed control in corn****Trial ID: C07-16****Location: Campus T-17****Investigator: Christy Sprague****Study Director: Sprague, Powell, Stiles**

Pest Code			
Crop Code		ZEAMX	CORN
Rating Date		Oct-24-2016	Oct-24-2016
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		133 DA-C	at 15% M
Number of Decimals		1	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code		
10	Tolpyralate (SL-573)	1 fl oz/a	B		17.9	275
10	Atrazine	1.1 lb/a	B			
10	Dual II Magnum	1.33 pt/a	B			
10	MSO	1 % v/v	B			
10	AMS	8.5 lb/100 gal	B			
11	Tolpyralate (SL-573)	1 fl oz/a	B		18.7	262
11	Atrazine	1.1 lb/a	B			
11	Surpass NXT	2.25 pt/a	B			
11	MSO	1 % v/v	B			
11	AMS	8.5 lb/100 gal	B			
12	Tolpyralate (SL-573)	1 fl oz/a	B		17.7	246
12	Atrazine	1.1 lb/a	B			
12	Status	5 oz/a	B			
12	MSO	1 % v/v	B			
12	AMS	8.5 lb/100 gal	B			
13	Tolpyralate (SL-573)	1 fl oz/a	B		17.3	255
13	Atrazine	1.1 lb/a	B			
13	Steadfast Q	1.5 oz/a	B			
13	MSO	1 % v/v	B			
13	AMS	8.5 lb/100 gal	B			
14	Tolpyralate (SL-573)	1 fl oz/a	B		17.2	253
14	Atrazine	1.1 lb/a	B			
14	Roundup PowerMax	22 fl oz/a	B			
14	MSO	1 % v/v	B			
14	AMS	8.5 lb/100 gal	B			
15	Impact	1 fl oz/a	B		17.9	246
15	Atrazine	1.1 lb/a	B			
15	MSO	1 % v/v	B			
15	AMS	8.5 lb/100 gal	B			
16	Callisto	3 fl oz/a	B		18.9	234
16	Atrazine	1.1 lb/a	B			
16	MSO	1 % v/v	B			
16	AMS	8.5 lb/100 gal	B			
	LSD P=.05				1.75	36.5
	Standard Deviation				1.05	21.8
	CV				5.85	8.54