

Weed control programs in Enlist corn - "Stewarded"

Trial ID: C10-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-11 Investigator: Christy Sprague

Planting Date: May-25-2016 **Row Spacing:** 30 IN
Variety: Enlist corn **No. of Reps:** 4
Population: 33000 seeds/A **% OM:** 2.8
Soil Type: L loam **pH:** 6.8
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finished twice
Fertilizer: 200 lb/A 19-19-19 starter

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambquarters, 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
Application Timing:	PRE	EPOS	POST
Date Treated:	May-25-2016	Jun-13-2016	Jun-21-2016
Time Treated:	4:15 PM	12:24 PM	8:00 AM
% Cloud Cover:	70	80	0
Air Temp., Unit:	83 F	70 F	67 F
% Relative Humidity:	43	42	62
Wind Speed/Unit/Dir:	6 MPH SW	1.5 MPH SE	0 MPH -
Soil Temp, Unit:	70 F		71 F
Leaf Moist/Dew Presence (Y/N):	5	5	5
Soil Moist:	4	4	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	ZEAMX	ZEAMX	ZEAMX
Height:		8 "	16 "
Stage:		V3	V5

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		1-3 " (2)	5 "
Stage:		3-4L	5L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		.5-1 " (1)	3-6 " (4)
Stage:		2-4L	6L
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:		.5-1	
Stage:		4L	
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:		.5-1 " (1)	3 "
Stage:		4L	4-6L
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height:		1-2 " (2)	3 "
Stage:		4L	6L

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	28 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 mph	AIXR	11003	29 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	ZEAMX					
Rating Date	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016
Rating Type	injury	injury	injury	injury	injury	injury
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	Appl Code						
		Rate Unit							
1	SureStart II	2 pt/a	A	0	99	80	100	98	94
1	Durango DMA	32 fl oz/a	C						
1	AMS (Liquid)	2.5 % v/v	C						
2	SureStart II	2 pt/a	A	0	90	83	96	88	80
2	Enlist Duo	3.5 pt/a	C						
2	AMS (Liquid)	2.5 % v/v	C						
3	SureStart II	2 pt/a	A	0	88	84	95	94	85
3	Enlist Duo	4.67 pt/a	C						
3	AMS (Liquid)	2.5 % v/v	C						
4	Harness Xtra	2.4 qt/a	A	0	92	94	100	73	70
4	Roundup PowerMax	28 fl oz/a	C						
4	AMS (Liquid)	2.5 % v/v	C						
5	Untreated			0	0	0	0	0	0
6	SureStart II	2 pt/a	B	0	100	100	100	100	100
6	Durango DMA	32 fl oz/a	B						
6	AMS (Liquid)	2.5 % v/v	B						
7	SureStart II	2 pt/a	B	0	100	100	100	100	100
7	Enlist Duo	3.5 pt/a	B						
7	AMS (Liquid)	2.5 % v/v	B						
8	SureStart II	2 pt/a	B	0	100	100	100	100	100
8	Enlist Duo	4.67 pt/a	B						
8	AMS (Liquid)	2.5 % v/v	B						
9	Halex GT	3.6 pt/a	B	0	100	100	100	98	81
9	Surfactant	0.25 % v/v	B						
9	AMS (Liquid)	2.5 % v/v	B						
LSD P=.05				.	11.3	14.2	4.4	8.1	10.8
Standard Deviation				0.0	7.7	9.7	3.0	5.6	7.4
CV				0.0	9.06	11.81	3.46	6.69	9.36

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
Crop Code	ZEAMX						ZEAMX
Rating Date	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jul-5-2016
Rating Type	injury	control	control	control	control	control	injury
Rating Unit	percent	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	14 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	SureStart II	2 pt/a	A	0	100	99	100	100	100	0
1	Durango DMA	32 fl oz/a	C							
1	AMS (Liquid)	2.5 % v/v	C							
2	SureStart II	2 pt/a	A	0	100	98	100	99	100	0
2	Enlist Duo	3.5 pt/a	C							
2	AMS (Liquid)	2.5 % v/v	C							
3	SureStart II	2 pt/a	A	0	100	99	100	99	100	0
3	Enlist Duo	4.67 pt/a	C							
3	AMS (Liquid)	2.5 % v/v	C							
4	Harness Xtra	2.4 qt/a	A	0	100	100	100	96	99	0
4	Roundup PowerMax	28 fl oz/a	C							
4	AMS (Liquid)	2.5 % v/v	C							
5	Untreated			0	0	0	0	0	0	0
6	SureStart II	2 pt/a	B	0	100	100	100	100	100	0
6	Durango DMA	32 fl oz/a	B							
6	AMS (Liquid)	2.5 % v/v	B							
7	SureStart II	2 pt/a	B	0	100	100	100	100	100	0
7	Enlist Duo	3.5 pt/a	B							
7	AMS (Liquid)	2.5 % v/v	B							
8	SureStart II	2 pt/a	B	0	100	100	100	100	100	0
8	Enlist Duo	4.67 pt/a	B							
8	AMS (Liquid)	2.5 % v/v	B							
9	Halex GT	3.6 pt/a	B	0	100	100	100	100	100	0
9	Surfactant	0.25 % v/v	B							
9	AMS (Liquid)	2.5 % v/v	B							
LSD P=.05				.	.	1.8	0.5	2.6	1.3	.
Standard Deviation				0.0	0.0	1.2	0.3	1.8	0.9	0.0
CV				0.0	0.0	1.4	0.38	2.05	0.97	0.0

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR
Crop Code						ZEAMX	
Rating Date	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-11-2016	Jul-11-2016
Rating Type	control	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	20 DA-C	20 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	SureStart II	2 pt/a	A	100	100	100	100	100	0	100
1	Durango DMA	32 fl oz/a	C							
1	AMS (Liquid)	2.5 % v/v	C							
2	SureStart II	2 pt/a	A	100	100	100	100	100	0	100
2	Enlist Duo	3.5 pt/a	C							
2	AMS (Liquid)	2.5 % v/v	C							
3	SureStart II	2 pt/a	A	100	100	100	100	100	0	100
3	Enlist Duo	4.67 pt/a	C							
3	AMS (Liquid)	2.5 % v/v	C							
4	Harness Xtra	2.4 qt/a	A	100	100	100	98	98	0	100
4	Roundup PowerMax	28 fl oz/a	C							
4	AMS (Liquid)	2.5 % v/v	C							
5	Untreated			0	0	0	0	0	0	0
6	SureStart II	2 pt/a	B	100	100	100	99	100	0	100
6	Durango DMA	32 fl oz/a	B							
6	AMS (Liquid)	2.5 % v/v	B							
7	SureStart II	2 pt/a	B	100	100	100	100	100	0	100
7	Enlist Duo	3.5 pt/a	B							
7	AMS (Liquid)	2.5 % v/v	B							
8	SureStart II	2 pt/a	B	100	100	100	100	100	0	100
8	Enlist Duo	4.67 pt/a	B							
8	AMS (Liquid)	2.5 % v/v	B							
9	Halex GT	3.6 pt/a	B	100	100	100	99	100	0	100
9	Surfactant	0.25 % v/v	B							
9	AMS (Liquid)	2.5 % v/v	B							
LSD P=.05				0.2	.	.	2.2	2.4	.	0.5
Standard Deviation				0.2	0.0	0.0	1.5	1.7	0.0	0.3
CV				0.19	0.0	0.0	1.74	1.88	0.0	0.38

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Pest Code	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code				
Rating Date	Jul-11-2016	Jul-11-2016	Jul-11-2016	Jul-11-2016
Rating Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	20 DA-C	20 DA-C	20 DA-C	20 DA-C
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code				
		Rate Unit					
1	SureStart II	2 pt/a	A	100	100	100	100
1	Durango DMA	32 fl oz/a	C				
1	AMS (Liquid)	2.5 % v/v	C				
2	SureStart II	2 pt/a	A	100	100	100	100
2	Enlist Duo	3.5 pt/a	C				
2	AMS (Liquid)	2.5 % v/v	C				
3	SureStart II	2 pt/a	A	100	100	100	100
3	Enlist Duo	4.67 pt/a	C				
3	AMS (Liquid)	2.5 % v/v	C				
4	Harness Xtra	2.4 qt/a	A	100	100	100	100
4	Roundup PowerMax	28 fl oz/a	C				
4	AMS (Liquid)	2.5 % v/v	C				
5	Untreated			0	0	0	0
6	SureStart II	2 pt/a	B	100	100	100	100
6	Durango DMA	32 fl oz/a	B				
6	AMS (Liquid)	2.5 % v/v	B				
7	SureStart II	2 pt/a	B	100	100	100	100
7	Enlist Duo	3.5 pt/a	B				
7	AMS (Liquid)	2.5 % v/v	B				
8	SureStart II	2 pt/a	B	100	100	100	100
8	Enlist Duo	4.67 pt/a	B				
8	AMS (Liquid)	2.5 % v/v	B				
9	Halex GT	3.6 pt/a	B	100	100	100	100
9	Surfactant	0.25 % v/v	B				
9	AMS (Liquid)	2.5 % v/v	B				
LSD	P=.05			.	.	0.7	0.5 .
Standard Deviation				0.0	0.0	0.5	0.3 .
CV				0.0	0.0	0.54	0.38 .