WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

General Trial Information

Study Director: Andy Chomas
Investigator: Wesley Everman

Personnel

Study Director: Andy Chomas
Investigator: Wesley Everman

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: P37Y14
BBCH Scale: BCOR **Planting Date:** May-4-10
Row Spacing, Unit: 30 IN
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 35 FT

Pest Description

Pest 1 Type: W **Code:** ANGR
Common Name: annual grass

Pest 2 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 3 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 4 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 5 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 35 FT
Plot Area, Unit: 350 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 6 **Study Design:** RACOBL Randomized Complete Block (RCB)

Trial Initiation Comments:
Fall Chisel, Spring Field Cultivate X2

Soil Description

% OM: 3.7 **Texture:** L loam
pH: 6.7
Analyzed By:
300 lb/A 46-0-0, 125 lb/A 19-19-19 in Row

Application Description

	A	B	C	D
Application Date:	May-4-10	May-28-10	Jun-4-10	Jun-10-10
Time of Day:	6:40 pm	10:00 am	4:30 pm	8:00 pm
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EP	MP	LP
Application Placement:	BROADC	BROADC	BROADC	BROADC
Air Temperature, Unit:	78 F	78 F	82 F	81 F
% Relative Humidity:	31	55	59	82
Wind Velocity, Unit:	2.5 MPH	2 MPH	5 MPH	2 MPH
Wind Direction:	SW	N	SW	E
Soil Temperature, Unit:	61 F	70 F	72 F	68 F
Soil Moisture:	4	5	2	2
% Cloud Cover:	5	0	95	78

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH	BBCH
Stage Majority, Percent:		V2	V4	V5
Stage Minimum, Percent:		V2		V4
Stage Maximum, Percent:		V3		V5
Height, Unit:		5 IN	10 IN	16 IN
Height Minimum, Maximum:		4 7	8 12	14 18

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Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	ANGR W	ANGR W	ANGR W	ANGR W
Stage Majority, Percent:		L2	L4	L3
Stage Minimum, Percent:		L1	L4	L3
Stage Maximum, Percent:		L3	L6	L4
Height, Unit:		1 IN	5 IN	2 IN
Height Minimum, Maximum:		0.5 3	0.5 8	1 4
Density, Unit:		6 FT2	5 FT2	
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		L4	L6	L6
Stage Minimum, Percent:		COT	L4	L4
Stage Maximum, Percent:		L6	L8	L8
Height, Unit:		1 IN	3 IN	3 IN
Height Minimum, Maximum:		0.25 2	0.5 5	1 4
Density, Unit:		73 FT2	60 FT2	
Pest 3 Code, Type, Scale:	AMARE W	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:		L2	L6	L6
Stage Minimum, Percent:		COT	L5	L6
Stage Maximum, Percent:		L4	L9	L10
Height, Unit:		0.5 IN	5 IN	3 IN
Height Minimum, Maximum:		0.25 1	1 7	3 6
Density, Unit:		2 FT2	1 FT2	
Pest 4 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:		L4	L4	L4
Stage Minimum, Percent:		COT	L4	L4
Stage Maximum, Percent:		L4	L6	L6
Height, Unit:		1 IN	4 IN	2 IN
Height Minimum, Maximum:		0.5 2	1 6	1 5
Density, Unit:		15 FT2	17 FT2	
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:		COT	L3	L4
Stage Minimum, Percent:		COT	L3	L4
Stage Maximum, Percent:		L2	L4	L6
Height, Unit:		0.5 IN	3 IN	4 IN
Height Minimum, Maximum:		0.5 1	3 5	2 4
Density, Unit:		1 FT2	1 FT2	

Application Equipment

		B	C	D
Equipment Type:	CUB	CUB	CUB	CUB
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	FF	FF	FF	FF
Nozzle Size:	8003	8003	8003	8003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN	20 IN
Boom Length, Unit:	100 IN	100 IN	100 IN	100 IN
Boom Height, Unit:	18 IN	21 IN	32 IN	29 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH	3.5 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	20 gal/ac	20 gal/ac	20 gal/ac	20 gal/ac
Mix Size, Unit:	1.5 gallons	1.5 gallons	1.5 gallons	1.5 gallons

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Pest Type							W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code							ANGR	CHEAL	AMARE	AMBEL	ABUTH		
Crop Code						ZEAMX						ZEAMX	ZEAMX
Rating Date						Jun-3-10	Jun-3-10	Jun-3-10	Jun-3-10	Jun-3-10	Jun-3-10	Jun-11-10	Jun-18-10
Rating Type						injury	control	control	control	control	control	injury	injury
Rating Unit						%	%	%	%	%	%	%	%
Trt-Eval Interval						AT MP	AT MP	AT MP	AT MP	AT MP	AT MP	7 DAMP	14 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
1	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	0	97	100	100	76	41	11	0
1	Yukon	67.5	WG	4	oz/a	MP								
1	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
1	Activator 90	100	L	0.125	% v/v	MP								
1	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
2	Bicep II Magnum	5.5	L	1.6	pt/a	PRE	0	97	97	100	74	57	0	0
2	Impact	2.8	SC	0.75	fl oz/a	MP								
2	Atrazine	4	L	0.5	qt/a	MP								
3	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	0	99	100	100	87	70	0	0
3	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
3	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
4	Integrity	5.6	L	16	fl oz/a	PRE	0	98	88	100	82	96	2	0
4	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
4	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
5	Guardsman Max	5	L	2.5	pt/a	PRE	0	98	100	100	83	70	2	0
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
5	Status	56	DF	2.5	oz/a	MP								
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
6	Resolve Q	22.4	DG	1	oz/a	EP	1	95	98	100	93	99	2	0
6	Atrazine	4	L	0.75	qt/a	EP								
6	Roundup PowerMAX	4.5	L	22	fl oz/a	EP								
6	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
7	SureStart	4.18	SE	1.75	pt/a	PRE	1	96	99	100	78	88	0	0
7	Durango DMA	4	L	24	fl oz/a	LP								
7	Ammonium Sulfate	100	DF	2	% w/w	LP								
8	Bicep II Magnum	5.5	L	1.6	pt/a	PRE	0	98	82	100	72	66	0	0
8	Impact	2.8	SC	0.5	fl oz/a	LP								
8	Roundup PowerMAX	4.5	L	22	fl oz/a	LP								
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP								
9	Degree Xtra	4	L	2	qt/a	PRE	0	99	99	99	78	57	0	0
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
10	Lumax	3.94	SE	3	qt/a	PRE	0	100	100	100	100	100	0	0
10	Atrazine	4	L	1	qt/a	PRE								
11	Callisto Xtra	3.7	SC	24	fl oz/a	MP							0	0
11	Touchdown Total	4.17	L	24	fl oz/a	MP								
11	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
11	Activator 90	100	L	0.25	% v/v	MP								
12	Breakfree ATZ Lite	5.5	L	2.2	qt/a	PRE	1	100	100	100	98	87	3	1
12	Resolve	25	DF	1	oz/a	PRE								
13	Ignite	1.67	EC	22	fl oz/a	MP							1	0
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
13	Ignite	1.67	EC	22	fl oz/a	LP								
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP								

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Pest Type								W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code								ANGR	CHEAL	AMARE	AMBEL	ABUTH							
Crop Code							ZEAMX								ZEAMX	ZEAMX			
Rating Date							Jun-3-10	Jun-3-10	Jun-3-10	Jun-3-10	Jun-3-10	Jun-3-10			Jun-11-10	Jun-18-10			
Rating Type							injury	control	control	control	control	control			injury	injury			
Rating Unit							%	%	%	%	%	%			%	%			
Trt-Eval Interval							AT MP	AT MP	AT MP	AT MP	AT MP	AT MP			7 DAMP	14 DAMP			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8					
14	Halex GT	4.39	L	3.6	pt/a	MP							5	0					
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP													
14	Activator 90	100	L	0.25	% v/v	MP													
15	Guardsman Max	5	L	4	pt/a	PRE	0	99	100	100	93	76	4	0					
15	Status	56	DF	5	oz/a	MP													
15	Activator 90	100	L	0.25	% v/v	MP													
15	Ammonium Sulfate	100	DF	17	lb/100 gal	MP													
16	Non-Treated						0	0	0	0	0	0	0	0					
17	Laudis	3.5	SC	3	fl oz/a	MP							4	1					
17	Atrazine	4	L	2	qt/a	MP													
17	MSO	100	L	1	% v/v	MP													
17	28% UAN	100	L	1.5	qt/a	MP													
18	Roundup PowerMAX	4.5	L	22	fl oz/a	MP							1	0					
18	Status	56	DF	2.5	oz/a	MP													
18	Prowl H2O	3.8	L	2	pt/a	MP													
18	Ammonium Sulfate	100	DF	17	lb/100 gal	MP													
19	SureStart	4.18	SE	1.75	pt/a	PRE	2	99	85	85	88	94	3	0					
19	Durango DMA	4	L	24	fl oz/a	EP													
19	Ammonium Sulfate	100	DF	2	% w/w	EP													
20	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP	8	96	100	100	100	100	5	2					
20	Roundup PowerMAX	4.5	L	22	fl oz/a	EP													
20	Ammonium Sulfate	100	DF	17	lb/100 gal	EP													
21	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	0	97	98	100	78	54	0	0					
21	Halex GT	4.39	L	3.6	pt/a	MP													
21	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP													
21	Activator 90	100	L	0.25	% v/v	MP													
22	Steadfast Q 1.5 oz												7	0					
22	Steadfast	75	WG	0.5625	oz ai/a	MP													
22	Isoxadifen-Ethyl	50	DF	0.125	oz ai/a	MP													
22	Atrazine	4	L	1	qt/a	MP													
22	Status	56	DF	2.5	oz/a	MP													
22	Herbimax	100	L	1	% v/v	MP													
22	Ammonium Sulfate	100	DF	2	lb/a	MP													
23	Roundup PowerMAX	4.5	L	22	fl oz/a	EP	2	95	78	100	72	90	3	0					
23	Ammonium Sulfate	100	DF	17	lb/100 gal	EP													
23	Roundup PowerMAX	4.5	L	22	fl oz/a	MP													
23	Ammonium Sulfate	100	DF	17	lb/100 gal	MP													
24	Ignite	1.67	EC	22	fl oz/a	MP							0	0					
24	Atrazine	4	F	1.5	qt/a	MP													
24	Ammonium Sulfate	100	DF	3	lb/a	MP													
25	Resolve	25	DF	1	oz/a	PRE	2	90	100	100	83	79	3	2					
25	Atrazine	4	L	0.75	qt/a	PRE													
25	Roundup PowerMAX	4.5	L	22	fl oz/a	MP													
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP													

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	9	10	11	12	13	14	15	16
Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code								
Rating Date	Jun-18-10	Jun-18-10	Jun-18-10	Jun-18-10	Jun-18-10	Jul-14-10	Jul-14-10	Jul-14-10
Rating Type	control	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%
Trt-Eval Interval	14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	40 DAMP	40 DAMP	40 DAMP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16
1	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	99	100	100	99	100	96	100	100
1	Yukon	67.5	WG	4	oz/a	MP								
1	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
1	Activator 90	100	L	0.125	% v/v	MP								
1	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
2	Bicep II Magnum	5.5	L	1.6	pt/a	PRE	95	99	100	83	86	86	92	99
2	Impact	2.8	SC	0.75	fl oz/a	MP								
2	Atrazine	4	L	0.5	qt/a	MP								
3	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	100	92	100	93	97	98	81	100
3	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
3	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
4	Integrity	5.6	L	16	fl oz/a	PRE	100	93	99	94	99	95	83	100
4	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
4	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
5	Guardsman Max	5	L	2.5	pt/a	PRE	100	97	100	97	99	99	88	100
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
5	Status	56	DF	2.5	oz/a	MP								
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
6	Resolve Q	22.4	DG	1	oz/a	EP	99	100	100	99	100	94	96	99
6	Atrazine	4	L	0.75	qt/a	EP								
6	Roundup PowerMAX	4.5	L	22	fl oz/a	EP								
6	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
7	SureStart	4.18	SE	1.75	pt/a	PRE	100	100	100	88	99	98	93	100
7	Durango DMA	4	L	24	fl oz/a	LP								
7	Ammonium Sulfate	100	DF	2	% w/w	LP								
8	Bicep II Magnum	5.5	L	1.6	pt/a	PRE	98	99	100	83	99	100	95	99
8	Impact	2.8	SC	0.5	fl oz/a	LP								
8	Roundup PowerMAX	4.5	L	22	fl oz/a	LP								
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP								
9	Degree Xtra	4	L	2	qt/a	PRE	100	95	100	94	98	99	85	100
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
10	Lumax	3.94	SE	3	qt/a	PRE	99	100	100	96	99	97	99	100
10	Atrazine	4	L	1	qt/a	PRE								
11	Callisto Xtra	3.7	SC	24	fl oz/a	MP	99	100	100	100	100	90	100	100
11	Touchdown Total	4.17	L	24	fl oz/a	MP								
11	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
11	Activator 90	100	L	0.25	% v/v	MP								
12	Breakfree ATZ Lite	5.5	L	2.2	qt/a	PRE	100	100	100	95	91	100	96	100
12	Resolve	25	DF	1	oz/a	PRE								
13	Ignite	1.67	EC	22	fl oz/a	MP	100	99	100	100	100	96	97	100
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
13	Ignite	1.67	EC	22	fl oz/a	LP								
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP								

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Pest Type						W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code						ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code													
Rating Date						Jun-18-10	Jun-18-10	Jun-18-10	Jun-18-10	Jun-18-10	Jul-14-10	Jul-14-10	Jul-14-10
Rating Type						control	control	control	control	control	control	control	control
Rating Unit						%	%	%	%	%	%	%	%
Trt-Eval Interval						14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	40 DAMP	40 DAMP	40 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage 9	10	11	12	13	14	15	16

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16
14	Halex GT	4.39	L	3.6	pt/a	MP	99	98	99	98	100	98	99	98
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
14	Activator 90	100	L	0.25	% v/v	MP								
15	Guardsman Max	5	L	4	pt/a	PRE	100	100	100	99	89	99	93	100
15	Status	56	DF	5	oz/a	MP								
15	Activator 90	100	L	0.25	% v/v	MP								
15	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
16	Non-Treated						0	0	0	0	0	0	0	0
17	Laudis	3.5	SC	3	fl oz/a	MP	97	100	100	100	100	84	100	100
17	Atrazine	4	L	2	qt/a	MP								
17	MSO	100	L	1	% v/v	MP								
17	28% UAN	100	L	1.5	qt/a	MP								
18	Roundup PowerMAX	4.5	L	22	fl oz/a	MP	96	84	100	100	100	96	96	98
18	Status	56	DF	2.5	oz/a	MP								
18	Prowl H2O	3.8	L	2	pt/a	MP								
18	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
19	SureStart	4.18	SE	1.75	pt/a	PRE	97	99	100	95	97	87	86	98
19	Durango DMA	4	L	24	fl oz/a	EP								
19	Ammonium Sulfate	100	DF	2	% w/w	EP								
20	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP	100	100	100	99	100	100	100	100
20	Roundup PowerMAX	4.5	L	22	fl oz/a	EP								
20	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
21	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	100	100	100	100	100	100	100	100
21	Halex GT	4.39	L	3.6	pt/a	MP								
21	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
21	Activator 90	100	L	0.25	% v/v	MP								
22	Steadfast Q 1.5 oz						93	99	100	95	91	97	100	100
22	Steadfast	75	WG	0.5625	oz ai/a	MP								
22	Isoxadifen-Ethyl	50	DF	0.125	oz ai/a	MP								
22	Atrazine	4	L	1	qt/a	MP								
22	Status	56	DF	2.5	oz/a	MP								
22	Herbimax	100	L	1	% v/v	MP								
22	Ammonium Sulfate	100	DF	2	lb/a	MP								
23	Roundup PowerMAX	4.5	L	22	fl oz/a	EP	95	82	88	90	95	78	79	87
23	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
23	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
23	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
24	Ignite	1.67	EC	22	fl oz/a	MP	99	100	100	100	99	85	100	98
24	Atrazine	4	F	1.5	qt/a	MP								
24	Ammonium Sulfate	100	DF	3	lb/a	MP								
25	Resolve	25	DF	1	oz/a	PRE	98	91	100	97	99	95	79	98
25	Atrazine	4	L	0.75	qt/a	PRE								
25	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								

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Pest Type						W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code						ANGR	CHEAL	AMARE	AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code													
Rating Date						Jun-18-10	Jun-18-10	Jun-18-10	Jun-18-10	Jun-18-10	Jul-14-10	Jul-14-10	Jul-14-10
Rating Type						control	control	control	control	control	control	control	control
Rating Unit						%	%	%	%	%	%	%	%
Trt-Eval Interval						14 DAMP	14 DAMP	14 DAMP	14 DAMP	14 DAMP	40 DAMP	40 DAMP	40 DAMP
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16
26	Capreno	3.45	SC	3	fl oz/a	MP	99	100	100	100	100	91	100	100
26	Atrazine	4	L	1	qt/a	MP								
26	Herbimax	100	L	1	% v/v	MP								
26	28% UAN	100	L	1.5	qt/a	MP								
27	Weed Free						98	82	93	92	97	100	100	100
LSD (P=.05)							2.7	4.4	3.0	2.9	3.5	6.1	5.7	4.0
Standard Deviation							2.4	3.8	2.6	2.5	3.0	5.4	5.0	3.5
CV							2.52	4.11	2.73	2.73	3.25	5.89	5.5	3.69

WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	17	18	19	20	21	22	23	24
Pest Type							W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code							AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH	
Crop Code														ZEAMX
Rating Date							Jul-14-10	Jul-14-10	Aug-17-10	Aug-17-10	Aug-17-10	Aug-17-10	Aug-17-10	Oct-6-10
Rating Type							control	control	control	control	control	control	control	yield
Rating Unit							%	%	%	%	%	%	%	bu/ac
Trt-Eval Interval							40 DAMP	40 DAMP	74 DAMP	74 DAMP	74 DAMP	74 DAMP	74 DAMP	HARVEST
1	Harness Xtra 5.6	5.6	L	1	qt/a	PRE	99	100	93	94	100	97	100	199
1	Yukon	67.5	WG	4	oz/a	MP								
1	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
1	Activator 90	100	L	0.125	% v/v	MP								
1	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
2	Bicep II Magnum	5.5	L	1.6	pt/a	PRE	73	67	84	84	100	72	73	210
2	Impact	2.8	SC	0.75	fl oz/a	MP								
2	Atrazine	4	L	0.5	qt/a	MP								
3	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	77	100	98	78	100	72	100	211
3	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
3	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
4	Integrity	5.6	L	16	fl oz/a	PRE	80	94	95	80	98	72	97	199
4	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
4	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
5	Guardsman Max	5	L	2.5	pt/a	PRE	83	100	100	83	100	82	99	203
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
5	Status	56	DF	2.5	oz/a	MP								
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
6	Resolve Q	22.4	DG	1	oz/a	EP	95	100	93	91	100	93	100	211
6	Atrazine	4	L	0.75	qt/a	EP								
6	Roundup PowerMAX	4.5	L	22	fl oz/a	EP								
6	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
7	SureStart	4.18	SE	1.75	pt/a	PRE	97	100	99	92	99	88	100	209
7	Durango DMA	4	L	24	fl oz/a	LP								
7	Ammonium Sulfate	100	DF	2	% w/w	LP								
8	Bicep II Magnum	5.5	L	1.6	pt/a	PRE	100	100	98	89	99	93	99	205
8	Impact	2.8	SC	0.5	fl oz/a	LP								
8	Roundup PowerMAX	4.5	L	22	fl oz/a	LP								
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP								
9	Degree Xtra	4	L	2	qt/a	PRE	80	100	100	81	100	77	99	212
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
10	Lumax	3.94	SE	3	qt/a	PRE	79	99	97	93	100	77	100	208
10	Atrazine	4	L	1	qt/a	PRE								
11	Callisto Xtra	3.7	SC	24	fl oz/a	MP	100	100	86	100	100	100	100	216
11	Touchdown Total	4.17	L	24	fl oz/a	MP								
11	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
11	Activator 90	100	L	0.25	% v/v	MP								
12	Breakfree ATZ Lite	5.5	L	2.2	qt/a	PRE	82	76	98	91	100	77	85	209
12	Resolve	25	DF	1	oz/a	PRE								
13	Ignite	1.67	EC	22	fl oz/a	MP	92	99	96	92	100	86	100	207
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
13	Ignite	1.67	EC	22	fl oz/a	LP								
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP								

WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

Pest Type							W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code							AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH	
Crop Code														ZEAMX
Rating Date							Jul-14-10	Jul-14-10	Aug-17-10	Aug-17-10	Aug-17-10	Aug-17-10	Aug-17-10	Oct-6-10
Rating Type							control	control	control	control	control	control	control	yield
Rating Unit							%	%	%	%	%	%	%	bu/ac
Trt-Eval Interval							40 DAMP	40 DAMP	74 DAMP	74 DAMP	74 DAMP	74 DAMP	74 DAMP	HARVEST
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	17	18	19	20	21	22	23	24
14	Halex GT	4.39	L	3.6	pt/a	MP	96	100	95	93	98	91	100	208
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
14	Activator 90	100	L	0.25	% v/v	MP								
15	Guardsman Max	5	L	4	pt/a	PRE	87	95	98	84	100	81	96	204
15	Status	56	DF	5	oz/a	MP								
15	Activator 90	100	L	0.25	% v/v	MP								
15	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
16	Non-Treated						0	0	0	0	0	0	0	41
17	Laudis	3.5	SC	3	fl oz/a	MP	98	100	83	100	100	99	100	210
17	Atrazine	4	L	2	qt/a	MP								
17	MSO	100	L	1	% v/v	MP								
17	28% UAN	100	L	1.5	qt/a	MP								
18	Roundup PowerMAX	4.5	L	22	fl oz/a	MP	93	98	95	96	98	87	98	213
18	Status	56	DF	2.5	oz/a	MP								
18	Prowl H2O	3.8	L	2	pt/a	MP								
18	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
19	SureStart	4.18	SE	1.75	pt/a	PRE	76	98	84	84	98	73	98	208
19	Durango DMA	4	L	24	fl oz/a	EP								
19	Ammonium Sulfate	100	DF	2	% w/w	EP								
20	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP	94	100	100	95	100	86	100	198
20	Roundup PowerMAX	4.5	L	22	fl oz/a	EP								
20	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
21	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	99	100	100	100	100	97	100	212
21	Halex GT	4.39	L	3.6	pt/a	MP								
21	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
21	Activator 90	100	L	0.25	% v/v	MP								
22	Steadfast Q 1.5 oz						98	100	95	100	100	99	100	202
22	Steadfast	75	WG	0.5625	oz ai/a	MP								
22	Isoxadifen-Ethyl	50	DF	0.125	oz ai/a	MP								
22	Atrazine	4	L	1	qt/a	MP								
22	Status	56	DF	2.5	oz/a	MP								
22	Herbimax	100	L	1	% v/v	MP								
22	Ammonium Sulfate	100	DF	2	lb/a	MP								
23	Roundup PowerMAX	4.5	L	22	fl oz/a	EP	75	93	77	76	90	73	90	218
23	Ammonium Sulfate	100	DF	17	lb/100 gal	EP								
23	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
23	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								
24	Ignite	1.67	EC	22	fl oz/a	MP	95	98	82	100	100	93	100	205
24	Atrazine	4	F	1.5	qt/a	MP								
24	Ammonium Sulfate	100	DF	3	lb/a	MP								
25	Resolve	25	DF	1	oz/a	PRE	88	98	92	72	98	84	98	204
25	Atrazine	4	L	0.75	qt/a	PRE								
25	Roundup PowerMAX	4.5	L	22	fl oz/a	MP								
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP								

WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

Pest Type						W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code						AMBEL	ABUTH	ANGR	CHEAL	AMARE	AMBEL	ABUTH	
Crop Code													ZEAMX
Rating Date						Jul-14-10	Jul-14-10	Aug-17-10	Aug-17-10	Aug-17-10	Aug-17-10	Aug-17-10	Oct-6-10
Rating Type						control	control	control	control	control	control	control	yield
Rating Unit						%	%	%	%	%	%	%	bu/ac
Trt-Eval Interval						40 DAMP	40 DAMP	74 DAMP	74 DAMP	74 DAMP	74 DAMP	74 DAMP	HARVEST
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage 17	18	19	20	21	22	23	24
26	Capreno	3.45	SC	3	fl oz/a	MP	100	100	88	100	100	100	100	206
26	Atrazine	4	L	1	qt/a	MP								
26	Herbimax	100	L	1	% v/v	MP								
26	28% UAN	100	L	1.5	qt/a	MP								
27	Weed Free						100	100	100	100	100	99	100	223
LSD (P=.05)							6.4	4.5	7.1	6.2	3.9	6.0	3.8	15.9
Standard Deviation							5.6	4.0	6.2	5.4	3.4	5.2	3.3	13.9
CV							6.45	4.25	6.91	6.2	3.59	6.28	3.52	6.91

WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

Pest Type
Pest Code
Crop Code
Rating Date
Rating Type
Rating Unit
Trt-Eval Interval

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	28	29
1	Harness Xtra 5.6	5.6	L	1	qt/a	PRE		
1	Yukon	67.5	WG	4	oz/a	MP		
1	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
1	Activator 90	100	L	0.125	% v/v	MP		
1	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP		
2	Bicep II Magnum	5.5	L	1.6	pt/a	PRE		
2	Impact	2.8	SC	0.75	fl oz/a	MP		
2	Atrazine	4	L	0.5	qt/a	MP		
3	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE		
3	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
3	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
4	Integrity	5.6	L	16	fl oz/a	PRE		
4	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
4	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
5	Guardsman Max	5	L	2.5	pt/a	PRE		
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
5	Status	56	DF	2.5	oz/a	MP		
5	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
6	Resolve Q	22.4	DG	1	oz/a	EP		
6	Atrazine	4	L	0.75	qt/a	EP		
6	Roundup PowerMAX	4.5	L	22	fl oz/a	EP		
6	Ammonium Sulfate	100	DF	17	lb/100 gal	EP		
7	SureStart	4.18	SE	1.75	pt/a	PRE		
7	Durango DMA	4	L	24	fl oz/a	LP		
7	Ammonium Sulfate	100	DF	2	% w/w	LP		
8	Bicep II Magnum	5.5	L	1.6	pt/a	PRE		
8	Impact	2.8	SC	0.5	fl oz/a	LP		
8	Roundup PowerMAX	4.5	L	22	fl oz/a	LP		
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP		
9	Degree Xtra	4	L	2	qt/a	PRE		
9	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
9	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
10	Lumax	3.94	SE	3	qt/a	PRE		
10	Atrazine	4	L	1	qt/a	PRE		
11	Callisto Xtra	3.7	SC	24	fl oz/a	MP		
11	Touchdown Total	4.17	L	24	fl oz/a	MP		
11	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP		
11	Activator 90	100	L	0.25	% v/v	MP		
12	Breakfree ATZ Lite	5.5	L	2.2	qt/a	PRE		
12	Resolve	25	DF	1	oz/a	PRE		
13	Ignite	1.67	EC	22	fl oz/a	MP		
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP		
13	Ignite	1.67	EC	22	fl oz/a	LP		
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	LP		

WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

Pest Type
Pest Code
Crop Code
Rating Date
Rating Type
Rating Unit
Trt-Eval Interval

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	28	29
14	Halex GT	4.39	L	3.6	pt/a	MP		
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP		
14	Activator 90	100	L	0.25	% v/v	MP		
15	Guardsman Max	5	L	4	pt/a	PRE		
15	Status	56	DF	5	oz/a	MP		
15	Activator 90	100	L	0.25	% v/v	MP		
15	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
16	Non-Treated							
17	Laudis	3.5	SC	3	fl oz/a	MP		
17	Atrazine	4	L	2	qt/a	MP		
17	MSO	100	L	1	% v/v	MP		
17	28% UAN	100	L	1.5	qt/a	MP		
18	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
18	Status	56	DF	2.5	oz/a	MP		
18	Prowl H2O	3.8	L	2	pt/a	MP		
18	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
19	SureStart	4.18	SE	1.75	pt/a	PRE		
19	Durango DMA	4	L	24	fl oz/a	EP		
19	Ammonium Sulfate	100	DF	2	% w/w	EP		
20	Harness Xtra 5.6	5.6	L	1.5	qt/a	EP		
20	Roundup PowerMAX	4.5	L	22	fl oz/a	EP		
20	Ammonium Sulfate	100	DF	17	lb/100 gal	EP		
21	Bicep II Magnum	5.5	L	1.1	qt/a	PRE		
21	Halex GT	4.39	L	3.6	pt/a	MP		
21	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP		
21	Activator 90	100	L	0.25	% v/v	MP		
22	Steadfast Q 1.5 oz							
22	Steadfast	75	WG	0.5625	oz ai/a	MP		
22	Isoxadifen-Ethyl	50	DF	0.125	oz ai/a	MP		
22	Atrazine	4	L	1	qt/a	MP		
22	Status	56	DF	2.5	oz/a	MP		
22	Herbimax	100	L	1	% v/v	MP		
22	Ammonium Sulfate	100	DF	2	lb/a	MP		
23	Roundup PowerMAX	4.5	L	22	fl oz/a	EP		
23	Ammonium Sulfate	100	DF	17	lb/100 gal	EP		
23	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
23	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		
24	Ignite	1.67	EC	22	fl oz/a	MP		
24	Atrazine	4	F	1.5	qt/a	MP		
24	Ammonium Sulfate	100	DF	3	lb/a	MP		
25	Resolve	25	DF	1	oz/a	PRE		
25	Atrazine	4	L	0.75	qt/a	PRE		
25	Roundup PowerMAX	4.5	L	22	fl oz/a	MP		
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP		

WEED CONTROL PROGRAMS COMPARISONS IN CORN, 2010

Trial ID: C0610 Protocol ID: C0610
Location: Campus Study Director: Andy Chomas
Project ID: Investigator: Wesley Everman

Pest Type
Pest Code
Crop Code
Rating Date
Rating Type
Rating Unit
Trt-Eval Interval

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	28	29
26	Capreno	3.45	SC	3	fl oz/a	MP		
26	Atrazine	4	L	1	qt/a	MP		
26	Herbimax	100	L	1	% v/v	MP		
26	28% UAN	100	L	1.5	qt/a	MP		
27	Weed Free							
LSD (P=.05)							.	.
Standard Deviation							.	.
CV							.	.