



**MSU Weed Science Research Program**

CAPRENO AND BALANCE FLEXX APPLICATION TIMING EFFECT ON WEED CONTROL IN CORN, 2008

Trial ID: C0608  
 Conducted: CAMPUS

Study Dir.:  
 Investigator: Wesley Everman

**Weed Density (plants/sq. ft.)**

	1	2	3
<b>Date:</b>	5/5/08	6/7/08	6/11/08
<b>Weed Name:</b>	ANGR	ANGR	ANGR
<b>Density:</b>	10	15	
<b>Date:</b>	5/5/08	6/7/08	6/11/08
<b>Weed Name:</b>	CHEAL	CHEAL	CHEAL
<b>Density:</b>	19	5	
<b>Date:</b>	5/5/08	6/7/08	6/11/08
<b>Weed Name:</b>	AMARE	AMARE	AMARE
<b>Density:</b>	1	2	
<b>Date:</b>	5/5/08	6/7/08	6/11/08
<b>Weed Name:</b>	AMBEL	AMBEL	AMBEL
<b>Density:</b>	8	9	
<b>Date:</b>	5/5/08	6/7/08	6/11/08
<b>Weed Name:</b>	ABUTH	ABUTH	ABUTH
<b>Density:</b>	<1	1	

**Application Equipment**

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	CUB	3.5	FF	8003	18"	20"	100"	20	H20	30
B	BackPack	3.5	FF	8003	23"	20"	100"	20	H20	30
C	CUB	3.5	FF	8003	26"	20"	100"	20	H20	30

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Weed Code							an	che	am	amb	abu	
Crop Code							ZEAMX					ZEAMX
Rating Data Type							injury	control	control	control	control	injury
Rating Unit							percent	percent	percent	percent	percent	percent
Rating Date							6/7/08	6/7/08	6/7/08	6/7/08	6/7/08	6/13/08
Trt-Eval Interval							AT MP	AT MP	AT MP	AT MP	AT MP	6 DAMP1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7
1	Non-Treated												0
2	Balance FLEXX	2	SC	3	fl oz/a	PRE	0	63	77	96	70	78	0
2	Atrazine	4	L	1	qt/a	PRE							
2	Capreno	3.45	SC	3	fl oz/a	MP2							
2	Atrazine	4	L	1	pt/a	MP2							
2	Herbimax		L	1	% v/v	MP2							
2	28% Nitrogen		L	1.5	qt/a	MP2							
3	Balance FLEXX	2	SC	3	fl oz/a	PRE	0	66	85	99	78	95	0
3	Atrazine	4	L	1	qt/a	PRE							
3	Capreno	3.45	SC	3	fl oz/a	MP2							
3	MSO		L	1	% v/v	MP2							
3	28% Nitrogen		L	1.5	qt/a	MP2							
4	Lumax	3.94	SE	1.5	qt/a	PRE	0	56	77	100	66	93	0
4	Lumax	3.94	SE	1.5	qt/a	MP2							
4	Activator 90		L	0.25	% v/v	MP2							
5	Capreno	3.45	SC	3	fl oz/a	MP2							0
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2							
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2							
6	Capreno	3.45	SC	3	fl oz/a	MP2							0
6	Atrazine	4	L	1	pt/a	MP2							
6	Roundup PowerMAX	4.5	L	11	fl oz/a	MP2							
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2							
7	Balance FLEXX	2	SC	3	fl oz/a	MP1							0
8	Halex GT	4.39	L	3.6	pt/a	MP1							2
8	Activator 90		L	0.25	% v/v	MP1							
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1							
9	Corvus	2.6	SC	2.5	fl oz/a	MP1							1
10	Capreno	3.45	SC	3	fl oz/a	MP1							3
10	Atrazine	4	L	1	pt/a	MP1							
10	Herbimax		L	1	% v/v	MP1							
10	28% Nitrogen		L	1.5	qt/a	MP1							
11	Impact	2.8	SC	0.75	fl oz/a	MP1							1
11	Atrazine	4	L	1	pt/a	MP1							
11	Herbimax		L	1	% v/v	MP1							
11	28% Nitrogen		L	1.5	qt/a	MP1							
12	Capreno	3.45	SC	3	fl oz/a	MP1							2
12	Atrazine	4	L	1	pt/a	MP1							
12	MSO		L	1	% v/v	MP1							
12	28% Nitrogen		L	1.5	qt/a	MP1							
LSD (P=.05)							0.0	16.4	13.4	4.3	8.6	17.5	1.8
Standard Deviation							0.0	9.5	7.8	2.5	5.0	10.1	1.2
CV							0.0	15.33	9.77	2.54	7.02	11.48	193.16

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Weed Code							anгр	cheal	amare	ambel	abuth
Crop Code							ZEAMX				
Rating Data Type							injury	control	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							6/18/08	6/18/08	6/18/08	6/18/08	6/18/08
Trt-Eval Interval							7 DAMP2	7 DAMP2	7 DAMP2	7 DAMP2	7 DAMP2

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	8	9	10	11	12	13
1	Non-Treated						0	0	0	0	0	0
2	Balance FLEXX	2	SC	3	fl oz/a	PRE	10	100	100	100	100	100
2	Atrazine	4	L	1	qt/a	PRE						
2	Capreno	3.45	SC	3	fl oz/a	MP2						
2	Atrazine	4	L	1	pt/a	MP2						
2	Herbimax		L	1	% v/v	MP2						
2	28% Nitrogen		L	1.5	qt/a	MP2						
3	Balance FLEXX	2	SC	3	fl oz/a	PRE	14	97	100	100	100	100
3	Atrazine	4	L	1	qt/a	PRE						
3	Capreno	3.45	SC	3	fl oz/a	MP2						
3	MSO		L	1	% v/v	MP2						
3	28% Nitrogen		L	1.5	qt/a	MP2						
4	Lumax	3.94	SE	1.5	qt/a	PRE	0	82	100	100	100	100
4	Lumax	3.94	SE	1.5	qt/a	MP2						
4	Activator 90		L	0.25	% v/v	MP2						
5	Capreno	3.45	SC	3	fl oz/a	MP2	6	97	85	100	100	100
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2						
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2						
6	Capreno	3.45	SC	3	fl oz/a	MP2	4	97	83	100	98	100
6	Atrazine	4	L	1	pt/a	MP2						
6	Roundup PowerMAX	4.5	L	11	fl oz/a	MP2						
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2						
7	Balance FLEXX	2	SC	3	fl oz/a	MP1	0	70	69	68	69	70
8	Halex GT	4.39	L	3.6	pt/a	MP1	1	100	100	100	97	100
8	Activator 90		L	0.25	% v/v	MP1						
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1						
9	Corvus	2.6	SC	2.5	fl oz/a	MP1	0	77	68	93	70	85
10	Capreno	3.45	SC	3	fl oz/a	MP1	1	95	100	100	100	100
10	Atrazine	4	L	1	pt/a	MP1						
10	Herbimax		L	1	% v/v	MP1						
10	28% Nitrogen		L	1.5	qt/a	MP1						
11	Impact	2.8	SC	0.75	fl oz/a	MP1	0	93	99	100	98	97
11	Atrazine	4	L	1	pt/a	MP1						
11	Herbimax		L	1	% v/v	MP1						
11	28% Nitrogen		L	1.5	qt/a	MP1						
12	Capreno	3.45	SC	3	fl oz/a	MP1	0	98	100	100	100	100
12	Atrazine	4	L	1	pt/a	MP1						
12	MSO		L	1	% v/v	MP1						
12	28% Nitrogen		L	1.5	qt/a	MP1						
LSD (P=.05)							2.7	4.6	3.9	6.3	2.7	5.5
Standard Deviation							1.9	3.2	2.7	4.4	1.8	3.8
CV							64.61	3.76	3.23	4.94	2.14	4.36

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Weed Code							anгр	cheal	amare	ambel	
Crop Code							ZEAMX				
Rating Data Type							injury	control	control	control	
Rating Unit							percent	percent	percent	percent	
Rating Date							6/25/08	6/25/08	6/25/08	6/25/08	
Trt-Eval Interval							14 DAMP2	14 DAMP2	14 DAMP2	14 DAMP2	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	14	15	16	17	18
1	Non-Treated						0	0	0	0	0
2	Balance FLEXX	2	SC	3	fl oz/a	PRE	2	98	100	100	100
2	Atrazine	4	L	1	qt/a	PRE					
2	Capreno	3.45	SC	3	fl oz/a	MP2					
2	Atrazine	4	L	1	pt/a	MP2					
2	Herbimax		L	1	% v/v	MP2					
2	28% Nitrogen		L	1.5	qt/a	MP2					
3	Balance FLEXX	2	SC	3	fl oz/a	PRE	4	97	100	100	100
3	Atrazine	4	L	1	qt/a	PRE					
3	Capreno	3.45	SC	3	fl oz/a	MP2					
3	MSO		L	1	% v/v	MP2					
3	28% Nitrogen		L	1.5	qt/a	MP2					
4	Lumax	3.94	SE	1.5	qt/a	PRE	0	75	100	100	100
4	Lumax	3.94	SE	1.5	qt/a	MP2					
4	Activator 90		L	0.25	% v/v	MP2					
5	Capreno	3.45	SC	3	fl oz/a	MP2	5	99	98	100	100
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2					
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2					
6	Capreno	3.45	SC	3	fl oz/a	MP2	5	100	100	100	100
6	Atrazine	4	L	1	pt/a	MP2					
6	Roundup PowerMAX	4.5	L	11	fl oz/a	MP2					
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2					
7	Balance FLEXX	2	SC	3	fl oz/a	MP1	1	66	71	65	73
8	Halex GT	4.39	L	3.6	pt/a	MP1	0	98	100	100	97
8	Activator 90		L	0.25	% v/v	MP1					
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1					
9	Corvus	2.6	SC	2.5	fl oz/a	MP1	0	69	70	100	90
10	Capreno	3.45	SC	3	fl oz/a	MP1	1	92	100	100	100
10	Atrazine	4	L	1	pt/a	MP1					
10	Herbimax		L	1	% v/v	MP1					
10	28% Nitrogen		L	1.5	qt/a	MP1					
11	Impact	2.8	SC	0.75	fl oz/a	MP1	0	93	100	100	96
11	Atrazine	4	L	1	pt/a	MP1					
11	Herbimax		L	1	% v/v	MP1					
11	28% Nitrogen		L	1.5	qt/a	MP1					
12	Capreno	3.45	SC	3	fl oz/a	MP1	3	98	100	100	99
12	Atrazine	4	L	1	pt/a	MP1					
12	MSO		L	1	% v/v	MP1					
12	28% Nitrogen		L	1.5	qt/a	MP1					
LSD (P=.05)							1.8	4.4	2.7	1.4	3.2
Standard Deviation							1.3	3.1	1.8	1.0	2.2
CV							73.19	3.73	2.13	1.08	2.5

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Weed Code							abuth		anгр	cheal	amare
Crop Code								ZEAMX			
Rating Data Type							control	injury	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							6/25/08	7/9/08	7/9/08	7/9/08	7/9/08
Trt-Eval Interval							14 DAMP2	28 DAMP2	28 DAMP2	28 DAMP2	28 DAMP2
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	19	20	21	22	23
1	Non-Treated						0	0	0	0	0
2	Balance FLEXX	2	SC	3	fl oz/a	PRE	100	0	93	100	100
2	Atrazine	4	L	1	qt/a	PRE					
2	Capreno	3.45	SC	3	fl oz/a	MP2					
2	Atrazine	4	L	1	pt/a	MP2					
2	Herbimax		L	1	% v/v	MP2					
2	28% Nitrogen		L	1.5	qt/a	MP2					
3	Balance FLEXX	2	SC	3	fl oz/a	PRE	100	0	93	100	100
3	Atrazine	4	L	1	qt/a	PRE					
3	Capreno	3.45	SC	3	fl oz/a	MP2					
3	MSO		L	1	% v/v	MP2					
3	28% Nitrogen		L	1.5	qt/a	MP2					
4	Lumax	3.94	SE	1.5	qt/a	PRE	100	0	63	100	100
4	Lumax	3.94	SE	1.5	qt/a	MP2					
4	Activator 90		L	0.25	% v/v	MP2					
5	Capreno	3.45	SC	3	fl oz/a	MP2	100	0	94	93	99
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2					
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2					
6	Capreno	3.45	SC	3	fl oz/a	MP2	100	0	97	99	100
6	Atrazine	4	L	1	pt/a	MP2					
6	Roundup PowerMAX	4.5	L	11	fl oz/a	MP2					
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2					
7	Balance FLEXX	2	SC	3	fl oz/a	MP1	82	0	49	59	33
8	Halex GT	4.39	L	3.6	pt/a	MP1	100	0	92	99	98
8	Activator 90		L	0.25	% v/v	MP1					
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1					
9	Corvus	2.6	SC	2.5	fl oz/a	MP1	94	0	50	59	99
10	Capreno	3.45	SC	3	fl oz/a	MP1	100	0	88	100	100
10	Atrazine	4	L	1	pt/a	MP1					
10	Herbimax		L	1	% v/v	MP1					
10	28% Nitrogen		L	1.5	qt/a	MP1					
11	Impact	2.8	SC	0.75	fl oz/a	MP1	98	0	84	100	99
11	Atrazine	4	L	1	pt/a	MP1					
11	Herbimax		L	1	% v/v	MP1					
11	28% Nitrogen		L	1.5	qt/a	MP1					
12	Capreno	3.45	SC	3	fl oz/a	MP1	100	0	92	100	100
12	Atrazine	4	L	1	pt/a	MP1					
12	MSO		L	1	% v/v	MP1					
12	28% Nitrogen		L	1.5	qt/a	MP1					
LSD (P=.05)							3.0	0.0	11.0	6.8	4.7
Standard Deviation							2.1	0.0	7.6	4.7	3.2
CV							2.3	0.0	10.26	5.62	3.79

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							ambel	abuth	angr	cheal	amare
							control	control	control	control	control
							percent	percent	percent	percent	percent
							7/9/08	7/9/08	8/6/08	8/6/08	8/6/08
							28 DAMP2	28 DAMP2	56 DAMP2	56 DAMP2	56 DAMP2
Trt	Treatment	Form	Form	Rate	Rate	Grow	24	25	26	27	28
No.	Name	Conc	Type	Rate	Unit	Stg					
1	Non-Treated						0	0	0	0	0
2	Balance FLEXX	2	SC	3	fl oz/a	PRE	100	100	97	100	100
2	Atrazine	4	L	1	qt/a	PRE					
2	Capreno	3.45	SC	3	fl oz/a	MP2					
2	Atrazine	4	L	1	pt/a	MP2					
2	Herbimax		L	1	% v/v	MP2					
2	28% Nitrogen		L	1.5	qt/a	MP2					
3	Balance FLEXX	2	SC	3	fl oz/a	PRE	100	100	93	100	100
3	Atrazine	4	L	1	qt/a	PRE					
3	Capreno	3.45	SC	3	fl oz/a	MP2					
3	MSO		L	1	% v/v	MP2					
3	28% Nitrogen		L	1.5	qt/a	MP2					
4	Lumax	3.94	SE	1.5	qt/a	PRE	100	100	58	100	100
4	Lumax	3.94	SE	1.5	qt/a	MP2					
4	Activator 90		L	0.25	% v/v	MP2					
5	Capreno	3.45	SC	3	fl oz/a	MP2	100	100	98	91	100
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2					
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2					
6	Capreno	3.45	SC	3	fl oz/a	MP2	100	100	97	100	100
6	Atrazine	4	L	1	pt/a	MP2					
6	Roundup PowerMAX	4.5	L	11	fl oz/a	MP2					
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2					
7	Balance FLEXX	2	SC	3	fl oz/a	MP1	65	76	58	68	58
8	Halex GT	4.39	L	3.6	pt/a	MP1	83	100	93	99	100
8	Activator 90		L	0.25	% v/v	MP1					
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1					
9	Corvus	2.6	SC	2.5	fl oz/a	MP1	91	94	58	65	100
10	Capreno	3.45	SC	3	fl oz/a	MP1	99	100	83	100	100
10	Atrazine	4	L	1	pt/a	MP1					
10	Herbimax		L	1	% v/v	MP1					
10	28% Nitrogen		L	1.5	qt/a	MP1					
11	Impact	2.8	SC	0.75	fl oz/a	MP1	83	99	78	99	98
11	Atrazine	4	L	1	pt/a	MP1					
11	Herbimax		L	1	% v/v	MP1					
11	28% Nitrogen		L	1.5	qt/a	MP1					
12	Capreno	3.45	SC	3	fl oz/a	MP1	96	100	87	100	100
12	Atrazine	4	L	1	pt/a	MP1					
12	MSO		L	1	% v/v	MP1					
12	28% Nitrogen		L	1.5	qt/a	MP1					
LSD (P=.05)							7.6	6.5	10.9	4.6	3.0
Standard Deviation							5.3	4.5	7.5	3.2	2.1
CV							6.2	5.02	10.08	3.72	2.36

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							ambel	abuth	
							control	control	ZEAMX
							percent	percent	yield
							8/6/08	8/6/08	bu/ac
							56 DAMP2	56 DAMP2	10/17/08
									HARVEST
Trt	Treatment	Form	Form	Rate	Rate	Grow			
No.	Name	Conc	Type	Rate	Unit	Stg	29	30	31
1	Non-Treated						0	0	43
2	Balance FLEXX	2	SC	3	fl oz/a	PRE	100	100	230
2	Atrazine	4	L	1	qt/a	PRE			
2	Capreno	3.45	SC	3	fl oz/a	MP2			
2	Atrazine	4	L	1	pt/a	MP2			
2	Herbimax		L	1	% v/v	MP2			
2	28% Nitrogen		L	1.5	qt/a	MP2			
3	Balance FLEXX	2	SC	3	fl oz/a	PRE	100	100	222
3	Atrazine	4	L	1	qt/a	PRE			
3	Capreno	3.45	SC	3	fl oz/a	MP2			
3	MSO		L	1	% v/v	MP2			
3	28% Nitrogen		L	1.5	qt/a	MP2			
4	Lumax	3.94	SE	1.5	qt/a	PRE	100	100	212
4	Lumax	3.94	SE	1.5	qt/a	MP2			
4	Activator 90		L	0.25	% v/v	MP2			
5	Capreno	3.45	SC	3	fl oz/a	MP2	99	99	225
5	Roundup PowerMAX	4.5	L	22	fl oz/a	MP2			
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2			
6	Capreno	3.45	SC	3	fl oz/a	MP2	100	100	227
6	Atrazine	4	L	1	pt/a	MP2			
6	Roundup PowerMAX	4.5	L	11	fl oz/a	MP2			
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2			
7	Balance FLEXX	2	SC	3	fl oz/a	MP1	74	98	216
8	Halex GT	4.39	L	3.6	pt/a	MP1	81	100	233
8	Activator 90		L	0.25	% v/v	MP1			
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1			
9	Corvus	2.6	SC	2.5	fl oz/a	MP1	100	100	208
10	Capreno	3.45	SC	3	fl oz/a	MP1	99	100	234
10	Atrazine	4	L	1	pt/a	MP1			
10	Herbimax		L	1	% v/v	MP1			
10	28% Nitrogen		L	1.5	qt/a	MP1			
11	Impact	2.8	SC	0.75	fl oz/a	MP1	82	100	239
11	Atrazine	4	L	1	pt/a	MP1			
11	Herbimax		L	1	% v/v	MP1			
11	28% Nitrogen		L	1.5	qt/a	MP1			
12	Capreno	3.45	SC	3	fl oz/a	MP1	94	100	237
12	Atrazine	4	L	1	pt/a	MP1			
12	MSO		L	1	% v/v	MP1			
12	28% Nitrogen		L	1.5	qt/a	MP1			
LSD (P=.05)							7.1	2.2	21.6
Standard Deviation							4.9	1.6	15.0
CV							5.7	1.7	7.11