

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Date Planted: Apr/29/2015 Row Spacing: 30 IN
 Variety: Dekalb 49-72 No. of Reps: 4
 Population: 32,000 seeds/A % OM: 3.3
 Soil Type: Sandy loam pH: 6.0
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow; spring soil finish
 Fertilizer: 300lb/A Urea-broadcast and incorporated; 150lb/A 19-19-19

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	Apr/29/2015	Jun/09/2015
Time Treated:	2:20 PM	12:30 PM
% Cloud Cover:	40	10
Air Temp., Unit:	66 F	70 F
% Relative Humidity:	38	70
Wind Speed/Unit/Dir:	7 mph N	6 mph W
Soil Temp., Unit:	60 F	62 F
Soil/Leaf Surface M:	5 -	3 5
Soil Moist (1=w 5=d):	5	3

Crop Stage at Each Application

	A	B
Crop Name:	ZEAMX	ZEAMX
Height (In.):	-	18"
Stage (L):	-	V6

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	-	2-4"
Stage (L):	-	3-5
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	-	2"
Stage (L):	-	4-6
Weed 3 Name:	AMAPO	AMAPO
Height (In.):	-	2"
Stage (L):	-	4-6
Weed 4 Name:	AMBEL	AMBEL
Height (In.):	-	2"
Stage (L):	-	4-6
Weed 5 Name:	ABUTH	ABUTH
Height (In.):	-	0.5-4"
Stage (L):	-	cot-7

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	7	9	1	5	1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	Cub	3.8	AIXR	11003	20"	20"	100"	19	Water	28	
B	Cub	3.8	AIXR	11003	30"	20"	100"	19	Water	28	

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Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Rating Date								0 DA-B	0 DA-B	0 DA-B	0 DA-B
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Harness Xtra	5.6	L	2	qt/a	PRE	A	0	99	99	99
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Zidua	85	WG	3	oz/a	PRE	A	4	99	99	99
2	Sharpen	2.85	L	3.5	fl oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Zidua	85	WG	3	oz/a	PRE	A	6	99	99	99
3	Sharpen	2.85	L	3.5	fl oz/a	PRE	A				
3	Atrazine	90	WG	1.1	lb/a	PRE	A				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Verdict	5.57	L	18	fl oz/a	PRE	A	3	99	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Verdict	5.57	L	18	fl oz/a	PRE	A	5	99	99	99
5	Atrazine	90	WG	1.1	lb/a	PRE	A				
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
6	Zidua	85	WG	2.5	oz/a	PRE	A	4	99	99	99
6	Verdict	5.57	L	10	fl oz/a	PRE	A				
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	0	99	79	99
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
8	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	0	99	99	99
8	Atrazine	90	WG	1.1	lb/a	PRE	A				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
9	GF-3471	3.3	L	2.75	qt/a	PRE	A	1	99	99	99
9	Durango DMA	4	SL	32	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
10	SureStart II	4.16	L	2	pt/a	PRE	A	2	99	96	99
10	Durango DMA	4	SL	32	fl oz/a	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
11	Untreated							0	0	0	0
12	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	96	99	99
12	Atrazine	90	WG	1.67	lb/a	PRE	A				
12	TripleFLEX II	4.16	L	1.5	pt/a	POST	B				
12	Liberty	2.34	L	22	fl oz/a	POST	B				
12	AMS		WG	8.5	lb/100 gal	POST	B				
13	Corvus	2.63	L	4	fl oz/a	PRE	A	1	99	99	99
13	Atrazine	90	WG	1.67	lb/a	PRE	A				
13	DiFlexx	4.2	L	8	fl oz/a	POST	B				
13	Liberty	2.34	L	22	fl oz/a	POST	B				
13	AMS		WG	8.5	lb/100 gal	POST	B				

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								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
								0 DA-B	0 DA-B	0 DA-B	0 DA-B
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
14	Corvus	2.63	L	3.5	fl oz/a	PRE	A	0	99	99	99
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	DiFlexx	4.2	L	8	fl oz/a	POST	B				
14	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
14	AMS		WG	17	lb/100 gal	POST	B				
15	Degree Xtra	4	L	3	qt/a	PRE	A	0	99	99	99
15	Laudis	3.5	L	3	fl oz/a	POST	B				
15	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
15	AMS		WG	17	lb/100 gal	POST	B				
16	Degree Xtra	4	L	3	qt/a	PRE	A	0	99	99	99
16	Laudis	3.5	L	3	fl oz/a	POST	B				
16	Stratego YLD	4.17	L	2	fl oz/a	POST	B				
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
16	AMS		WG	17	lb/100 gal	POST	B				
17	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	0	99	99	99
17	Impact	2.8	L	0.75	fl oz/a	POST	B				
17	Atrazine	90	WG	0.56	lb/a	POST	B				
17	MSO		L	1	% v/v	POST	B				
17	AMS		WG	17	lb/100 gal	POST	B				
18	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	0	99	99	99
18	Impact	2.8	L	0.75	fl oz/a	POST	B				
18	Atrazine	90	WG	0.56	lb/a	POST	B				
18	Status	56	WG	3	oz/a	POST	B				
18	MSO		L	1	% v/v	POST	B				
18	AMS		WG	17	lb/100 gal	POST	B				
19	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	0	98	99	99
19	Impact	2.8	L	0.75	fl oz/a	POST	B				
19	Atrazine	90	WG	0.56	lb/a	POST	B				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
19	MSO		L	0.5	% v/v	POST	B				
19	AMS		WG	17	lb/100 gal	POST	B				
20	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	1	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Cadet	0.91	L	0.6	fl oz/a	POST	B				
20	Atrazine	90	WG	0.56	lb/a	POST	B				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
20	AMS		WG	17	lb/100 gal	POST	B				
21	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	0	99	98	99
21	Atrazine	90	WG	1.1	lb/a	PRE	A				
21	Anthem MAXX	4.3	L	4	fl oz/a	POST	B				
21	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
21	AMS		WG	17	lb/100 gal	POST	B				
22	Anthem MAXX	4.3	L	2.25	fl oz/a	PRE	A	1	98	99	99
22	Atrazine	90	WG	1.67	lb/a	PRE	A				
22	Solstice	4	L	2.5	fl oz/a	POST	B				
22	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
22	AMS		WG	17	lb/100 gal	POST	B				

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Crop Code								ZEAMX		
Rating Data Type								injury	control	control
Rating Unit								percent	percent	percent
Rating Date								Jun/09/2015	Jun/09/2015	Jun/09/2015
Trt-Eval Interval								0 DA-B	0 DA-B	0 DA-B
# Subsamples, Dec.								0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code			
23	Atrazine	90	WG	1.1	lb/a	PRE	A	0	53	99
23	Aim	2	L	1	fl oz/a	PRE	A			
23	Solstice	4	L	3	fl oz/a	POST	B			
23	Atrazine	90	WG	0.56	lb/a	POST	B			
23	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
23	AMS		WG	17	lb/100 gal	POST	B			
24	Atrazine	90	WG	1.1	lb/a	PRE	A	0	62	97
24	Solstice	4	L	2.5	fl oz/a	POST	B			
24	Anthem MAXX	4.3	L	2.25	fl oz/a	POST	B			
24	Atrazine	90	WG	0.56	lb/a	POST	B			
24	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
24	AMS		WG	17	lb/100 gal	POST	B			
LSD (P=.05)								1.3	9.0	3.5
CV								84.44	6.96	2.64

Means followed by same letter do not significantly differ (P=.05, LSD)

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								AMBEL	ABUTH	ZEAMX	ANGR
								control	control	injury	control
								percent	percent	percent	percent
								Jun/09/2015	Jun/09/2015	Jun/16/2015	Jun/16/2015
								0 DA-B	0 DA-B	7 DA-B	7 DA-B
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
1	Harness Xtra	5.6	L	2	qt/a	PRE A	97	83	0	99	
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
1	AMS		WG	17	lb/100 gal	POST B					
2	Zidua	85	WG	3	oz/a	PRE A	99	99	3	99	
2	Sharpen	2.85	L	3.5	fl oz/a	PRE A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
2	AMS		WG	17	lb/100 gal	POST B					
3	Zidua	85	WG	3	oz/a	PRE A	99	99	4	99	
3	Sharpen	2.85	L	3.5	fl oz/a	PRE A					
3	Atrazine	90	WG	1.1	lb/a	PRE A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
3	AMS		WG	17	lb/100 gal	POST B					
4	Verdict	5.57	L	18	fl oz/a	PRE A	99	99	3	99	
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
4	AMS		WG	17	lb/100 gal	POST B					
5	Verdict	5.57	L	18	fl oz/a	PRE A	99	99	5	99	
5	Atrazine	90	WG	1.1	lb/a	PRE A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
5	AMS		WG	17	lb/100 gal	POST B					
6	Zidua	85	WG	2.5	oz/a	PRE A	99	99	3	99	
6	Verdict	5.57	L	10	fl oz/a	PRE A					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
6	AMS		WG	17	lb/100 gal	POST B					
7	BAS 67703H	4.75	L	20	fl oz/a	PRE A	15	0	0	99	
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
7	AMS		WG	17	lb/100 gal	POST B					
8	BAS 67703H	4.75	L	20	fl oz/a	PRE A	92	91	0	99	
8	Atrazine	90	WG	1.1	lb/a	PRE A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
8	AMS		WG	17	lb/100 gal	POST B					
9	GF-3471	3.3	L	2.75	qt/a	PRE A	99	99	1	99	
9	Durango DMA	4	SL	32	fl oz/a	POST B					
9	AMS		WG	17	lb/100 gal	POST B					
10	SureStart II	4.16	L	2	pt/a	PRE A	83	94	1	99	
10	Durango DMA	4	SL	32	fl oz/a	POST B					
10	AMS		WG	17	lb/100 gal	POST B					
11	Untreated						0	0	0	0	
12	Balance Flexx	2	L	4	fl oz/a	PRE A	99	99	4	99	
12	Atrazine	90	WG	1.67	lb/a	PRE A					
12	TripleFLEX II	4.16	L	1.5	pt/a	POST B					
12	Liberty	2.34	L	22	fl oz/a	POST B					
12	AMS		WG	8.5	lb/100 gal	POST B					
13	Corvus	2.63	L	4	fl oz/a	PRE A	99	99	4	99	
13	Atrazine	90	WG	1.67	lb/a	PRE A					
13	DiFlexx	4.2	L	8	fl oz/a	POST B					
13	Liberty	2.34	L	22	fl oz/a	POST B					
13	AMS		WG	8.5	lb/100 gal	POST B					

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								control	control	injury	control
								percent	percent	percent	percent
								Jun/09/2015	Jun/09/2015	Jun/16/2015	Jun/16/2015
								0 DA-B	0 DA-B	7 DA-B	7 DA-B
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
14	Corvus	2.63	L	3.5	fl oz/a	PRE A	99	99	5	99	
14	Atrazine	90	WG	1.1	lb/a	PRE A					
14	DiFlexx	4.2	L	8	fl oz/a	POST B					
14	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
14	AMS		WG	17	lb/100 gal	POST B					
15	Degree Xtra	4	L	3	qt/a	PRE A	97	80	0	99	
15	Laudis	3.5	L	3	fl oz/a	POST B					
15	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
15	AMS		WG	17	lb/100 gal	POST B					
16	Degree Xtra	4	L	3	qt/a	PRE A	93	68	0	99	
16	Laudis	3.5	L	3	fl oz/a	POST B					
16	Stratego YLD	4.17	L	2	fl oz/a	POST B					
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
16	AMS		WG	17	lb/100 gal	POST B					
17	Harness Xtra	5.6	L	1.6	qt/a	PRE A	92	60	0	99	
17	Impact	2.8	L	0.75	fl oz/a	POST B					
17	Atrazine	90	WG	0.56	lb/a	POST B					
17	MSO		L	1	% v/v	POST B					
17	AMS		WG	17	lb/100 gal	POST B					
18	Harness Xtra	5.6	L	1.6	qt/a	PRE A	95	77	0	99	
18	Impact	2.8	L	0.75	fl oz/a	POST B					
18	Atrazine	90	WG	0.56	lb/a	POST B					
18	Status	56	WG	3	oz/a	POST B					
18	MSO		L	1	% v/v	POST B					
18	AMS		WG	17	lb/100 gal	POST B					
19	Harness Xtra	5.6	L	1.6	qt/a	PRE A	97	68	0	99	
19	Impact	2.8	L	0.75	fl oz/a	POST B					
19	Atrazine	90	WG	0.56	lb/a	POST B					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
19	MSO		L	0.5	% v/v	POST B					
19	AMS		WG	17	lb/100 gal	POST B					
20	Anthem MAXX	4.3	L	4	fl oz/a	PRE A	99	99	5	99	
20	Atrazine	90	WG	1.1	lb/a	PRE A					
20	Cadet	0.91	L	0.6	fl oz/a	POST B					
20	Atrazine	90	WG	0.56	lb/a	POST B					
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
20	AMS		WG	17	lb/100 gal	POST B					
21	Anthem MAXX	4.3	L	4	fl oz/a	PRE A	99	98	2	99	
21	Atrazine	90	WG	1.1	lb/a	PRE A					
21	Anthem MAXX	4.3	L	4	fl oz/a	POST B					
21	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
21	AMS		WG	17	lb/100 gal	POST B					
22	Anthem MAXX	4.3	L	2.25	fl oz/a	PRE A	97	97	2	99	
22	Atrazine	90	WG	1.67	lb/a	PRE A					
22	Solstice	4	L	2.5	fl oz/a	POST B					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	POST B					
22	AMS		WG	17	lb/100 gal	POST B					

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								control	control	injury	control
								percent	percent	percent	percent
								Jun/09/2015	Jun/09/2015	Jun/16/2015	Jun/16/2015
								0 DA-B	0 DA-B	7 DA-B	7 DA-B
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Unit	Stg	Code					
23	Atrazine	90	WG	1.1 lb/a	PRE	A	69	63	0	99	
23	Aim	2	L	1 fl oz/a	PRE	A					
23	Solstice	4	L	3 fl oz/a	POST	B					
23	Atrazine	90	WG	0.56 lb/a	POST	B					
23	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
23	AMS		WG	17 lb/100 gal	POST	B					
24	Atrazine	90	WG	1.1 lb/a	PRE	A	77	70	2	99	
24	Solstice	4	L	2.5 fl oz/a	POST	B					
24	Anthem MAXX	4.3	L	2.25 fl oz/a	POST	B					
24	Atrazine	90	WG	0.56 lb/a	POST	B					
24	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B					
24	AMS		WG	17 lb/100 gal	POST	B					
LSD (P=.05)								12.8	12.8	1.5	0.0
CV								10.35	11.23	63.41	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code								CHEAL	AMAPO	AMBEL	ABUTH
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/16/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Trt-Eval Interval								7 DA-B	7 DA-B	7 DA-B	7 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Harness Xtra	5.6	L	2	qt/a	PRE	A	99	99	99	99
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Zidua	85	WG	3	oz/a	PRE	A	99	99	99	99
2	Sharpen	2.85	L	3.5	fl oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Zidua	85	WG	3	oz/a	PRE	A	99	99	99	99
3	Sharpen	2.85	L	3.5	fl oz/a	PRE	A				
3	Atrazine	90	WG	1.1	lb/a	PRE	A				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Verdict	5.57	L	18	fl oz/a	PRE	A	99	99	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Verdict	5.57	L	18	fl oz/a	PRE	A	99	99	99	99
5	Atrazine	90	WG	1.1	lb/a	PRE	A				
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
6	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	99
6	Verdict	5.57	L	10	fl oz/a	PRE	A				
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	99	99	99	99
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
8	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	99	99	99	99
8	Atrazine	90	WG	1.1	lb/a	PRE	A				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
9	GF-3471	3.3	L	2.75	qt/a	PRE	A	99	99	99	99
9	Durango DMA	4	SL	32	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
10	SureStart II	4.16	L	2	pt/a	PRE	A	99	99	99	99
10	Durango DMA	4	SL	32	fl oz/a	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
11	Untreated							0	0	0	0
12	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
12	Atrazine	90	WG	1.67	lb/a	PRE	A				
12	TripleFLEX II	4.16	L	1.5	pt/a	POST	B				
12	Liberty	2.34	L	22	fl oz/a	POST	B				
12	AMS		WG	8.5	lb/100 gal	POST	B				
13	Corvus	2.63	L	4	fl oz/a	PRE	A	99	99	99	99
13	Atrazine	90	WG	1.67	lb/a	PRE	A				
13	DiFlexx	4.2	L	8	fl oz/a	POST	B				
13	Liberty	2.34	L	22	fl oz/a	POST	B				
13	AMS		WG	8.5	lb/100 gal	POST	B				

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								CHEAL	AMAPO	AMBEL	ABUTH
Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/16/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Trt-Eval Interval								7 DA-B	7 DA-B	7 DA-B	7 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
14	Corvus	2.63	L	3.5	fl oz/a	PRE	A	99	99	99	99
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	DiFlexx	4.2	L	8	fl oz/a	POST	B				
14	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
14	AMS		WG	17	lb/100 gal	POST	B				
15	Degree Xtra	4	L	3	qt/a	PRE	A	99	99	99	99
15	Laudis	3.5	L	3	fl oz/a	POST	B				
15	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
15	AMS		WG	17	lb/100 gal	POST	B				
16	Degree Xtra	4	L	3	qt/a	PRE	A	99	99	99	99
16	Laudis	3.5	L	3	fl oz/a	POST	B				
16	Stratego YLD	4.17	L	2	fl oz/a	POST	B				
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
16	AMS		WG	17	lb/100 gal	POST	B				
17	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	99	99
17	Impact	2.8	L	0.75	fl oz/a	POST	B				
17	Atrazine	90	WG	0.56	lb/a	POST	B				
17	MSO		L	1	% v/v	POST	B				
17	AMS		WG	17	lb/100 gal	POST	B				
18	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	99	99
18	Impact	2.8	L	0.75	fl oz/a	POST	B				
18	Atrazine	90	WG	0.56	lb/a	POST	B				
18	Status	56	WG	3	oz/a	POST	B				
18	MSO		L	1	% v/v	POST	B				
18	AMS		WG	17	lb/100 gal	POST	B				
19	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	99	99
19	Impact	2.8	L	0.75	fl oz/a	POST	B				
19	Atrazine	90	WG	0.56	lb/a	POST	B				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
19	MSO		L	0.5	% v/v	POST	B				
19	AMS		WG	17	lb/100 gal	POST	B				
20	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	99	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Cadet	0.91	L	0.6	fl oz/a	POST	B				
20	Atrazine	90	WG	0.56	lb/a	POST	B				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
20	AMS		WG	17	lb/100 gal	POST	B				
21	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	99	99	99	99
21	Atrazine	90	WG	1.1	lb/a	PRE	A				
21	Anthem MAXX	4.3	L	4	fl oz/a	POST	B				
21	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
21	AMS		WG	17	lb/100 gal	POST	B				
22	Anthem MAXX	4.3	L	2.25	fl oz/a	PRE	A	99	99	99	99
22	Atrazine	90	WG	1.67	lb/a	PRE	A				
22	Solstice	4	L	2.5	fl oz/a	POST	B				
22	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
22	AMS		WG	17	lb/100 gal	POST	B				

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								CHEAL	AMAPO	AMBEL	ABUTH
Weed Code											
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/16/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Trt-Eval Interval								7 DA-B	7 DA-B	7 DA-B	7 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
23	Atrazine	90	WG	1.1	lb/a	PRE	A	99	99	99	99
23	Aim	2	L	1	fl oz/a	PRE	A				
23	Solstice	4	L	3	fl oz/a	POST	B				
23	Atrazine	90	WG	0.56	lb/a	POST	B				
23	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
23	AMS		WG	17	lb/100 gal	POST	B				
24	Atrazine	90	WG	1.1	lb/a	PRE	A	99	99	99	99
24	Solstice	4	L	2.5	fl oz/a	POST	B				
24	Anthem MAXX	4.3	L	2.25	fl oz/a	POST	B				
24	Atrazine	90	WG	0.56	lb/a	POST	B				
24	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
24	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	0.0	0.3	0.1
CV								0.0	0.0	0.24	0.11

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jun/23/2015
Rating Date								14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Harness Xtra	5.6	L	2	qt/a	PRE	A	0	99	99	99
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Zidua	85	WG	3	oz/a	PRE	A	4	99	99	99
2	Sharpen	2.85	L	3.5	fl oz/a	PRE	A				
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Zidua	85	WG	3	oz/a	PRE	A	9	99	99	99
3	Sharpen	2.85	L	3.5	fl oz/a	PRE	A				
3	Atrazine	90	WG	1.1	lb/a	PRE	A				
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Verdict	5.57	L	18	fl oz/a	PRE	A	5	99	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Verdict	5.57	L	18	fl oz/a	PRE	A	6	99	99	99
5	Atrazine	90	WG	1.1	lb/a	PRE	A				
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
5	AMS		WG	17	lb/100 gal	POST	B				
6	Zidua	85	WG	2.5	oz/a	PRE	A	5	99	99	99
6	Verdict	5.57	L	10	fl oz/a	PRE	A				
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	0	99	99	99
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
8	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	0	99	99	99
8	Atrazine	90	WG	1.1	lb/a	PRE	A				
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
8	AMS		WG	17	lb/100 gal	POST	B				
9	GF-3471	3.3	L	2.75	qt/a	PRE	A	1	99	99	99
9	Durango DMA	4	SL	32	fl oz/a	POST	B				
9	AMS		WG	17	lb/100 gal	POST	B				
10	SureStart II	4.16	L	2	pt/a	PRE	A	0	99	99	99
10	Durango DMA	4	SL	32	fl oz/a	POST	B				
10	AMS		WG	17	lb/100 gal	POST	B				
11	Untreated							0	0	0	0
12	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
12	Atrazine	90	WG	1.67	lb/a	PRE	A				
12	TripleFLEX II	4.16	L	1.5	pt/a	POST	B				
12	Liberty	2.34	L	22	fl oz/a	POST	B				
12	AMS		WG	8.5	lb/100 gal	POST	B				
13	Corvus	2.63	L	4	fl oz/a	PRE	A	4	99	99	99
13	Atrazine	90	WG	1.67	lb/a	PRE	A				
13	DiFlexx	4.2	L	8	fl oz/a	POST	B				
13	Liberty	2.34	L	22	fl oz/a	POST	B				
13	AMS		WG	8.5	lb/100 gal	POST	B				

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jun/23/2015
								14 DA-B	14 DA-B	14 DA-B	14 DA-B
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
14	Corvus	2.63	L	3.5	fl oz/a	PRE	A	5	99	99	99
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	DiFlexx	4.2	L	8	fl oz/a	POST	B				
14	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
14	AMS		WG	17	lb/100 gal	POST	B				
15	Degree Xtra	4	L	3	qt/a	PRE	A	0	99	99	99
15	Laudis	3.5	L	3	fl oz/a	POST	B				
15	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
15	AMS		WG	17	lb/100 gal	POST	B				
16	Degree Xtra	4	L	3	qt/a	PRE	A	0	99	99	99
16	Laudis	3.5	L	3	fl oz/a	POST	B				
16	Stratego YLD	4.17	L	2	fl oz/a	POST	B				
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
16	AMS		WG	17	lb/100 gal	POST	B				
17	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	0	99	99	99
17	Impact	2.8	L	0.75	fl oz/a	POST	B				
17	Atrazine	90	WG	0.56	lb/a	POST	B				
17	MSO		L	1	% v/v	POST	B				
17	AMS		WG	17	lb/100 gal	POST	B				
18	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	0	99	99	99
18	Impact	2.8	L	0.75	fl oz/a	POST	B				
18	Atrazine	90	WG	0.56	lb/a	POST	B				
18	Status	56	WG	3	oz/a	POST	B				
18	MSO		L	1	% v/v	POST	B				
18	AMS		WG	17	lb/100 gal	POST	B				
19	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	0	99	99	99
19	Impact	2.8	L	0.75	fl oz/a	POST	B				
19	Atrazine	90	WG	0.56	lb/a	POST	B				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
19	MSO		L	0.5	% v/v	POST	B				
19	AMS		WG	17	lb/100 gal	POST	B				
20	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	2	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Cadet	0.91	L	0.6	fl oz/a	POST	B				
20	Atrazine	90	WG	0.56	lb/a	POST	B				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
20	AMS		WG	17	lb/100 gal	POST	B				
21	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	4	99	99	99
21	Atrazine	90	WG	1.1	lb/a	PRE	A				
21	Anthem MAXX	4.3	L	4	fl oz/a	POST	B				
21	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
21	AMS		WG	17	lb/100 gal	POST	B				
22	Anthem MAXX	4.3	L	2.25	fl oz/a	PRE	A	1	99	99	99
22	Atrazine	90	WG	1.67	lb/a	PRE	A				
22	Solstice	4	L	2.5	fl oz/a	POST	B				
22	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
22	AMS		WG	17	lb/100 gal	POST	B				

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ANGR	CHEAL	AMAPO	
Crop Code								ZEAMX			
Rating Data Type								injury	control	control	
Rating Unit								percent	percent	percent	
Rating Date								Jun/23/2015	Jun/23/2015	Jun/23/2015	
Trt-Eval Interval								14 DA-B	14 DA-B	14 DA-B	
# Subsamples, Dec.								0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
23	Atrazine	90	WG	1.1	lb/a	PRE	A	0	98	99	99
23	Aim	2	L	1	fl oz/a	PRE	A				
23	Solstice	4	L	3	fl oz/a	POST	B				
23	Atrazine	90	WG	0.56	lb/a	POST	B				
23	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
23	AMS		WG	17	lb/100 gal	POST	B				
24	Atrazine	90	WG	1.1	lb/a	PRE	A	3	99	99	99
24	Solstice	4	L	2.5	fl oz/a	POST	B				
24	Anthem MAXX	4.3	L	2.25	fl oz/a	POST	B				
24	Atrazine	90	WG	0.56	lb/a	POST	B				
24	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B				
24	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								2.4	0.6	0.1	0.2
CV								88.82	0.43	0.11	0.19

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
								control	control	injury	control	control
								percent	percent	percent	percent	percent
								Jun/23/2015	Jun/23/2015	Jul/07/2015	Jul/07/2015	Jul/07/2015
								14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Harness Xtra	5.6	L	2	qt/a	PRE	A	99	99	0	99	99
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Zidua	85	WG	3	oz/a	PRE	A	99	99	5	99	99
2	Sharpen	2.85	L	3.5	fl oz/a	PRE	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Zidua	85	WG	3	oz/a	PRE	A	99	99	4	99	99
3	Sharpen	2.85	L	3.5	fl oz/a	PRE	A					
3	Atrazine	90	WG	1.1	lb/a	PRE	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Verdict	5.57	L	18	fl oz/a	PRE	A	99	99	2	99	99
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Verdict	5.57	L	18	fl oz/a	PRE	A	99	99	4	99	99
5	Atrazine	90	WG	1.1	lb/a	PRE	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
6	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	3	99	99
6	Verdict	5.57	L	10	fl oz/a	PRE	A					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
7	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	99	99	0	99	99
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					
8	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	99	99	0	99	99
8	Atrazine	90	WG	1.1	lb/a	PRE	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
9	GF-3471	3.3	L	2.75	qt/a	PRE	A	99	99	1	99	99
9	Durango DMA	4	SL	32	fl oz/a	POST	B					
9	AMS		WG	17	lb/100 gal	POST	B					
10	SureStart II	4.16	L	2	pt/a	PRE	A	99	99	0	99	99
10	Durango DMA	4	SL	32	fl oz/a	POST	B					
10	AMS		WG	17	lb/100 gal	POST	B					
11	Untreated							0	0	0	0	0
12	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	0	99	99
12	Atrazine	90	WG	1.67	lb/a	PRE	A					
12	TripleFLEX II	4.16	L	1.5	pt/a	POST	B					
12	Liberty	2.34	L	22	fl oz/a	POST	B					
12	AMS		WG	8.5	lb/100 gal	POST	B					
13	Corvus	2.63	L	4	fl oz/a	PRE	A	99	99	2	99	99
13	Atrazine	90	WG	1.67	lb/a	PRE	A					
13	DiFlexx	4.2	L	8	fl oz/a	POST	B					
13	Liberty	2.34	L	22	fl oz/a	POST	B					
13	AMS		WG	8.5	lb/100 gal	POST	B					

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
Crop Code					
Rating Data Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/23/2015	Jun/23/2015	Jul/07/2015	Jul/07/2015	Jul/07/2015
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
14	Corvus	2.63	L	3.5	fl oz/a	PRE	A	99	99	3	99	99
14	Atrazine	90	WG	1.1	lb/a	PRE	A					
14	DiFlexx	4.2	L	8	fl oz/a	POST	B					
14	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
14	AMS		WG	17	lb/100 gal	POST	B					
15	Degree Xtra	4	L	3	qt/a	PRE	A	99	99	0	99	99
15	Laudis	3.5	L	3	fl oz/a	POST	B					
15	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
15	AMS		WG	17	lb/100 gal	POST	B					
16	Degree Xtra	4	L	3	qt/a	PRE	A	99	99	0	99	99
16	Laudis	3.5	L	3	fl oz/a	POST	B					
16	Stratego YLD	4.17	L	2	fl oz/a	POST	B					
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
16	AMS		WG	17	lb/100 gal	POST	B					
17	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	0	99	99
17	Impact	2.8	L	0.75	fl oz/a	POST	B					
17	Atrazine	90	WG	0.56	lb/a	POST	B					
17	MSO		L	1	% v/v	POST	B					
17	AMS		WG	17	lb/100 gal	POST	B					
18	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	0	99	99
18	Impact	2.8	L	0.75	fl oz/a	POST	B					
18	Atrazine	90	WG	0.56	lb/a	POST	B					
18	Status	56	WG	3	oz/a	POST	B					
18	MSO		L	1	% v/v	POST	B					
18	AMS		WG	17	lb/100 gal	POST	B					
19	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	0	99	99
19	Impact	2.8	L	0.75	fl oz/a	POST	B					
19	Atrazine	90	WG	0.56	lb/a	POST	B					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
19	MSO		L	0.5	% v/v	POST	B					
19	AMS		WG	17	lb/100 gal	POST	B					
20	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	99	99	1	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A					
20	Cadet	0.91	L	0.6	fl oz/a	POST	B					
20	Atrazine	90	WG	0.56	lb/a	POST	B					
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
20	AMS		WG	17	lb/100 gal	POST	B					
21	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	99	99	1	99	99
21	Atrazine	90	WG	1.1	lb/a	PRE	A					
21	Anthem MAXX	4.3	L	4	fl oz/a	POST	B					
21	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
21	AMS		WG	17	lb/100 gal	POST	B					
22	Anthem MAXX	4.3	L	2.25	fl oz/a	PRE	A	99	99	0	99	99
22	Atrazine	90	WG	1.67	lb/a	PRE	A					
22	Solstice	4	L	2.5	fl oz/a	POST	B					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
22	AMS		WG	17	lb/100 gal	POST	B					

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								AMBEL	ABUTH	ZEAMX	ANGR	CHEAL
								control	control	injury	control	control
								percent	percent	percent	percent	percent
								Jun/23/2015	Jun/23/2015	Jul/07/2015	Jul/07/2015	Jul/07/2015
								14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
								0	0	0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Stg	Code						
23	Atrazine	90	WG	1.1 lb/a	PRE	A	99	99	0	98	99	
23	Aim	2	L	1 fl oz/a	PRE	A						
23	Solstice	4	L	3 fl oz/a	POST	B						
23	Atrazine	90	WG	0.56 lb/a	POST	B						
23	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B						
23	AMS		WG	17 lb/100 gal	POST	B						
24	Atrazine	90	WG	1.1 lb/a	PRE	A	99	99	0	99	99	
24	Solstice	4	L	2.5 fl oz/a	POST	B						
24	Anthem MAXX	4.3	L	2.25 fl oz/a	POST	B						
24	Atrazine	90	WG	0.56 lb/a	POST	B						
24	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	B						
24	AMS		WG	17 lb/100 gal	POST	B						
LSD (P=.05)								0.4	0.4	2.0	0.8	0.0
CV								0.32	0.27	140.97	0.57	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX
Crop Code								control	control	control	moisture	yield
Rating Data Type								percent	percent	percent	percent	bu/acre
Rating Unit								Jul/07/2015	Jul/07/2015	Jul/07/2015	Oct/18/2015	Oct/18/2015
Rating Date								28 DA-B	28 DA-B	28 DA-B	131 DA-B	at 15% M
Trt-Eval Interval								0	0	0	1	0
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Harness Xtra	5.6	L	2	qt/a	PRE	A	99	99	99	16.7	265
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Zidua	85	WG	3	oz/a	PRE	A	99	99	99	17.7	253
2	Sharpen	2.85	L	3.5	fl oz/a	PRE	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Zidua	85	WG	3	oz/a	PRE	A	99	99	99	16.5	265
3	Sharpen	2.85	L	3.5	fl oz/a	PRE	A					
3	Atrazine	90	WG	1.1	lb/a	PRE	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Verdict	5.57	L	18	fl oz/a	PRE	A	99	99	99	17.7	263
4	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Verdict	5.57	L	18	fl oz/a	PRE	A	99	99	99	16.9	270
5	Atrazine	90	WG	1.1	lb/a	PRE	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
6	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	16.8	269
6	Verdict	5.57	L	10	fl oz/a	PRE	A					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
7	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	99	99	99	17.0	260
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					
8	BAS 67703H	4.75	L	20	fl oz/a	PRE	A	99	99	99	16.6	268
8	Atrazine	90	WG	1.1	lb/a	PRE	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
9	GF-3471	3.3	L	2.75	qt/a	PRE	A	99	99	99	16.7	272
9	Durango DMA	4	SL	32	fl oz/a	POST	B					
9	AMS		WG	17	lb/100 gal	POST	B					
10	SureStart II	4.16	L	2	pt/a	PRE	A	99	99	99	17.4	265
10	Durango DMA	4	SL	32	fl oz/a	POST	B					
10	AMS		WG	17	lb/100 gal	POST	B					
11	Untreated							0	0	0	16.1	214
12	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	16.5	263
12	Atrazine	90	WG	1.67	lb/a	PRE	A					
12	TripleFLEX II	4.16	L	1.5	pt/a	POST	B					
12	Liberty	2.34	L	22	fl oz/a	POST	B					
12	AMS		WG	8.5	lb/100 gal	POST	B					
13	Corvus	2.63	L	4	fl oz/a	PRE	A	99	99	99	16.8	266
13	Atrazine	90	WG	1.67	lb/a	PRE	A					
13	DiFlexx	4.2	L	8	fl oz/a	POST	B					
13	Liberty	2.34	L	22	fl oz/a	POST	B					
13	AMS		WG	8.5	lb/100 gal	POST	B					

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX
Crop Code											moisture	yield
Rating Data Type								control	control	control	percent	bu/acre
Rating Unit								percent	percent	percent		
Rating Date								Jul/07/2015	Jul/07/2015	Jul/07/2015	Oct/18/2015	Oct/18/2015
Trt-Eval Interval								28 DA-B	28 DA-B	28 DA-B	131 DA-B	at 15% M
# Subsamples, Dec.								0	0	0	1	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code					
14	Corvus	2.63	L	3.5	fl oz/a	PRE	A	99	98	99	17.0	256
14	Atrazine	90	WG	1.1	lb/a	PRE	A					
14	DiFlexx	4.2	L	8	fl oz/a	POST	B					
14	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
14	AMS		WG	17	lb/100 gal	POST	B					
15	Degree Xtra	4	L	3	qt/a	PRE	A	99	98	99	16.3	260
15	Laudis	3.5	L	3	fl oz/a	POST	B					
15	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
15	AMS		WG	17	lb/100 gal	POST	B					
16	Degree Xtra	4	L	3	qt/a	PRE	A	99	99	99	16.8	260
16	Laudis	3.5	L	3	fl oz/a	POST	B					
16	Stratego YLD	4.17	L	2	fl oz/a	POST	B					
16	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
16	AMS		WG	17	lb/100 gal	POST	B					
17	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	99	16.8	272
17	Impact	2.8	L	0.75	fl oz/a	POST	B					
17	Atrazine	90	WG	0.56	lb/a	POST	B					
17	MSO		L	1	% v/v	POST	B					
17	AMS		WG	17	lb/100 gal	POST	B					
18	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	99	16.3	248
18	Impact	2.8	L	0.75	fl oz/a	POST	B					
18	Atrazine	90	WG	0.56	lb/a	POST	B					
18	Status	56	WG	3	oz/a	POST	B					
18	MSO		L	1	% v/v	POST	B					
18	AMS		WG	17	lb/100 gal	POST	B					
19	Harness Xtra	5.6	L	1.6	qt/a	PRE	A	99	99	99	16.4	253
19	Impact	2.8	L	0.75	fl oz/a	POST	B					
19	Atrazine	90	WG	0.56	lb/a	POST	B					
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
19	MSO		L	0.5	% v/v	POST	B					
19	AMS		WG	17	lb/100 gal	POST	B					
20	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	99	99	99	17.2	255
20	Atrazine	90	WG	1.1	lb/a	PRE	A					
20	Cadet	0.91	L	0.6	fl oz/a	POST	B					
20	Atrazine	90	WG	0.56	lb/a	POST	B					
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
20	AMS		WG	17	lb/100 gal	POST	B					
21	Anthem MAXX	4.3	L	4	fl oz/a	PRE	A	99	99	99	17.3	266
21	Atrazine	90	WG	1.1	lb/a	PRE	A					
21	Anthem MAXX	4.3	L	4	fl oz/a	POST	B					
21	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
21	AMS		WG	17	lb/100 gal	POST	B					
22	Anthem MAXX	4.3	L	2.25	fl oz/a	PRE	A	99	99	99	16.3	254
22	Atrazine	90	WG	1.67	lb/a	PRE	A					
22	Solstice	4	L	2.5	fl oz/a	POST	B					
22	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
22	AMS		WG	17	lb/100 gal	POST	B					

MSU Weed Science Research Program

Sequential weed control programs in corn

Trial ID: C09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								AMAPO	AMBEL	ABUTH	ZEAMX	ZEAMX
Crop Code								control	control	control	moisture	yield
Rating Data Type								percent	percent	percent	percent	bu/acre
Rating Unit								Jul/07/2015	Jul/07/2015	Jul/07/2015	Oct/18/2015	Oct/18/2015
Rating Date								28 DA-B	28 DA-B	28 DA-B	131 DA-B	at 15% M
Trt-Eval Interval								0	0	0	1	0
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code					
23	Atrazine	90	WG	1.1	lb/a	PRE	A	99	98	99	16.7	262
23	Aim	2	L	1	fl oz/a	PRE	A					
23	Solstice	4	L	3	fl oz/a	POST	B					
23	Atrazine	90	WG	0.56	lb/a	POST	B					
23	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
23	AMS		WG	17	lb/100 gal	POST	B					
24	Atrazine	90	WG	1.1	lb/a	PRE	A	99	99	99	17.2	249
24	Solstice	4	L	2.5	fl oz/a	POST	B					
24	Anthem MAXX	4.3	L	2.25	fl oz/a	POST	B					
24	Atrazine	90	WG	0.56	lb/a	POST	B					
24	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
24	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								0.0	1.2	0.0	1.35	18.0
CV								0.0	0.86	0.0	5.67	4.9

Means followed by same letter do not significantly differ (P=.05, LSD)