

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411 Study Dir.: Andy Chomas
Conducted: CAMPUS Investigator: Christy Sprague

Date Planted: 5/10/2011 Row Spacing: 30 IN
Variety: GARST 88M51 No. of Reps: 4
Population: 30,500 S/A % OM: 3.4
Soil Type: LOAM pH: 6.6
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall Chisel, Spring Field Cultivated X2
Fertilizer: 300 lbs/A 46-0-0 Broadcast. 125 lbs/A 19-19-19 in Row at Planting.

Application Description

Table with 5 columns (A-E) and 10 rows of application data including timing, date, time, cloud cover, temperature, humidity, wind, soil temp, and moisture.

Crop Stage at Each Application

Table with 5 columns (A-E) showing crop height and stage at each application point.

Weed Stage at Each Application

Table with 5 columns (A-E) showing weed height and stage at each application point.

Weed Density (plants/sq. ft.)

Table with 2 columns (1-2) showing weed density for various species (ANGR, CHEAL, AMARE, AMBEL, ABUTH) on two dates.

Application Equipment

Table with 12 columns (Appl, Sprayer, Speed, Nozzle, Nozzle Size, Nozzle Height, Nozzle Spacing, Width, GPA, Carrier, PSI) listing equipment for each application.

Comments: * Weed Stage at Each Application: The order is as follows, ANGR(ANNUAL GRASS), CHEAL(COMMON LAMBSQUARTERS), AMARE(REDROOT PIGWEED), AMBEL(COMMON RAGWEED), ABUTH(VELVETLEAF).

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Weed Code									ANGR	CHEAL	AMARE	AMBEL	ABUTH			
Crop Code									ZEAMX							ZEAMX
Rating Data Type									injury	control	control	control	control	control	injury	
Rating Unit									percent	percent	percent	percent	percent	percent		
Rating Date									6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/13/2011		
Trt-Eval Interval									AT MP2	AT MP2	AT MP2	AT MP2	AT MP2	7 DAMP1		
# Subsamples, Dec.									0	0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code									
1	Redesigned Lumax	3.94	SE	3	qt/a	PRE	A	0	96	100	100	95	100	0		
1	Atrazine	4	L	1	qt/a	PRE	A									
2	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	A	0	97	100	100	96	91	5		
2	Resolve	25	SG	1	oz/a	PRE	A									
3	Degree Xtra	4	L	2	qt/a	PRE	A	0	97	99	100	85	94	3		
3	TripleFlex	4.16	EW	1	qt/a	PRE	A									
4	Capreno	3.45	SC	3	fl oz/a	EP	B	0	91	100	100	100	100	0		
4	Atrazine	4	L	1	qt/a	EP	B									
4	Herbimax		L	1	% v/v	EP	B									
4	28% Nitrogen		L	1.5	qt/a	EP	B									
5	Capreno	3.45	SC	3	fl oz/a	MP1	C							3		
5	Atrazine	4	L	1	qt/a	MP1	C									
5	Herbimax		L	1	% v/v	MP1	C									
5	28% Nitrogen		L	1.5	qt/a	MP1	C									
6	Guardsman Max	5	L	2	qt/a	PRE	A	0	88	99	95	74	76	13		
6	Status	56	DF	5	oz/a	MP2	D									
6	Activator 90		L	0.25	% v/v	MP2	D									
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D									
7	Untreated						D	0	0	0	0	0	0	0		
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	A	0	88	98	98	76	68	0		
8	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D									
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D									
9	SureStart	4.18	SE	1.75	pt/a	EP	B	0	99	100	100	98	96	1		
9	Durango DMA	4	SL	24	fl oz/a	EP	B									
9	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B									
10	TripleFlex	4.16	EW	1	qt/a	EP	B	0	98	100	100	89	88	0		
10	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B									
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B									
11	Resolve Q 1.25 oz	22.4	DG				B	0	97	100	100	100	100	0		
11	Resolve	25	DF	0.25	oz ai/a	EP	B									
11	Harmony SG 50%	50	SG	0.05	oz ai/a	EP	B									
11	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B									
11	Atrazine	4	L	1	qt/a	EP	B									
11	Abundit Extra		L	1	qt/a	EP	B									
11	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B									
12	Realm Q 4 oz	38.7	DF			EP	B	1	99	100	100	100	100	0		
12	Resolve	25	DF	0.3	oz/a	EP	B									
12	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B									
12	Mesotrione DRY	50	WG	1.25	oz ai/a	EP	B									
12	Atrazine	4	L	1	qt/a	EP	B									
12	Abundit Extra		L	1	qt/a	EP	B									
12	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B									
13	Halex GT	4.39	L	3.6	pt/a	MP1	C							0		
13	Activator 90		L	0.25	% v/v	MP1	C									
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C									

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Weed Code								ANGR	CHEAL	AMARE	AMBEL	ABUTH		
Crop Code														
Rating Data Type														
Rating Unit														
Rating Date														
Trt-Eval Interval														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
14	Callisto Xtra	3.7	L	24	fl oz/a	MP1	C						0	
14	Touchdown Total	4.17	L	24	fl oz/a	MP1	C							
14	Activator 90		L	0.25	% v/v	MP1	C							
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C							
15	Capreno	3.45	SC	3	fl oz/a	MP1	C						0	
15	Atrazine	4	L	1	qt/a	MP1	C							
15	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C							
15	Ammonium Sulfate	100	DF	3	lb/a	MP1	C							
16	Prowl H2O	3.8	L	2	pt/a	MP1	C						1	
16	Status	56	DF	2.5	oz/a	MP1	C							
16	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C							
16	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C							
17	Verdict	5.6	L	15	fl oz/a	PRE	A	0	80	76	88	84	89	5
17	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
17	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
18	Ignite 280	2.34	L	22	fl oz/a	EP	B	0	98	100	100	99	100	1
18	Atrazine	4	L	1.5	qt/a	EP	B							
18	Ammonium Sulfate	100	DF	3	lb/a	EP	B							
19	SureStart	4.18	SE	1.75	pt/a	PRE	A	0	81	84	96	80	75	0
19	Durango DMA	4	SL	24	fl oz/a	LP	E							
19	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E							
20	TripleFlex	4.16	EW	1	qt/a	PRE	A	0	80	83	96	78	75	1
20	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
21	Resolve	25	SG	1	oz/a	PRE	A	0	71	99	98	93	81	3
21	Atrazine	4	L	1	qt/a	PRE	A							
21	Abundit Extra		L	1	qt/a	MP2	D							
21	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
22	Guardsman Max	5	L	2.5	pt/a	PRE	A	0	91	98	88	79	65	4
22	Status	56	DF	2.5	oz/a	MP2	D							
22	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
22	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
23	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	A	0	86	90	94	75	63	0
23	Halex GT	4.39	L	3.6	pt/a	MP2	D							
23	Activator 90		L	0.25	% v/v	MP2	D							
23	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2	D							
24	Harness Xtra 5.6	5.6	L	3	pt/a	PRE	A	0	87	95	100	79	68	0
24	Impact	2.8	SC	0.5	fl oz/a	MP2	D							
24	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
24	Atrazine	4	L	1	pt/a	MP2	D							
24	Destiny HC		L	0.5	% v/v	MP2	D							
24	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C							0
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C							
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	LP	E							
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E							

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Weed Code														
Crop Code														
Rating Data Type														
Rating Unit														
Rating Date														
Trt-Eval Interval														
# Subsamples, Dec.														

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ZEAMX injury percent	ANGR control percent	CHEAL control percent	AMARE control percent	AMBEL control percent	ABUTH control percent	ZEAMX injury percent
26	Weed Free						B	0	100	100	100	100	100	0
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B							
26	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B							
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
26	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							

LSD (P=.05)	0.5	8.1	7.2	6.9	10.0	13.1	3.6
Standard Deviation	0.3	5.7	5.1	4.9	7.1	9.3	2.6
CV	894.43	6.64	5.56	5.3	8.41	11.41	172.03

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code										ANGR	CHEAL	AMARE
Crop Code										ZEAMX	ZEAMX	
Rating Data Type										injury	injury	control
Rating Unit										percent	percent	percent
Rating Date										6/16/2011	6/24/2011	6/24/2011
Trt-Eval Interval										7 DAMP2	15 DAMP2	15 DAMP2
# Subsamples, Dec.										0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Redesigned Lumax	3.94	SE	3	qt/a	PRE	A	0	0	88	100	100
1	Atrazine	4	L	1	qt/a	PRE	A					
2	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	A	0	0	82	91	96
2	Resolve	25	SG	1	oz/a	PRE	A					
3	Degree Xtra	4	L	2	qt/a	PRE	A	0	0	91	97	100
3	TripleFlex	4.16	EW	1	qt/a	PRE	A					
4	Capreno	3.45	SC	3	fl oz/a	EP	B	0	0	82	100	100
4	Atrazine	4	L	1	qt/a	EP	B					
4	Herbimax		L	1	% v/v	EP	B					
4	28% Nitrogen		L	1.5	qt/a	EP	B					
5	Capreno	3.45	SC	3	fl oz/a	MP1	C	0	0	74	99	100
5	Atrazine	4	L	1	qt/a	MP1	C					
5	Herbimax		L	1	% v/v	MP1	C					
5	28% Nitrogen		L	1.5	qt/a	MP1	C					
6	Guardsman Max	5	L	2	qt/a	PRE	A	10	1	90	100	100
6	Status	56	DF	5	oz/a	MP2	D					
6	Activator 90		L	0.25	% v/v	MP2	D					
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
7	Untreated						D	0	0	0	0	0
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	A	0	0	83	92	98
8	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
9	SureStart	4.18	SE	1.75	pt/a	EP	B	0	0	96	100	100
9	Durango DMA	4	SL	24	fl oz/a	EP	B					
9	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
10	TripleFlex	4.16	EW	1	qt/a	EP	B	0	0	94	96	99
10	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B					
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
11	Resolve Q 1.25 oz	22.4	DG				B	0	0	88	98	100
11	Resolve	25	DF	0.25	oz ai/a	EP	B					
11	Harmony SG 50%	50	SG	0.05	oz ai/a	EP	B					
11	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B					
11	Atrazine	4	L	1	qt/a	EP	B					
11	Abundit Extra		L	1	qt/a	EP	B					
11	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
12	Realm Q 4 oz	38.7	DF			EP	B	0	0	88	99	100
12	Resolve	25	DF	0.3	oz/a	EP	B					
12	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B					
12	Mesotrione DRY	50	WG	1.25	oz ai/a	EP	B					
12	Atrazine	4	L	1	qt/a	EP	B					
12	Abundit Extra		L	1	qt/a	EP	B					
12	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
13	Halex GT	4.39	L	3.6	pt/a	MP1	C	0	0	98	99	100
13	Activator 90		L	0.25	% v/v	MP1	C					
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C					

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Weed Code								ZEAMX		ZEAMX		ANGR	CHEAL	AMARE
Crop Code								injury		injury		control	control	control
Rating Data Type								percent		percent		percent	percent	percent
Rating Unit								6/16/2011		6/24/2011		6/24/2011	6/24/2011	6/24/2011
Rating Date								7 DAMP2		15 DAMP2		15 DAMP2	15 DAMP2	15 DAMP2
Trt-Eval Interval								0		0		0	0	0
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code							
14	Callisto Xtra	3.7	L	24	fl oz/a	MP1	C	0	0	95	100	100		
14	Touchdown Total	4.17	L	24	fl oz/a	MP1	C							
14	Activator 90		L	0.25	% v/v	MP1	C							
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C							
15	Capreno	3.45	SC	3	fl oz/a	MP1	C	0	0	99	100	100		
15	Atrazine	4	L	1	qt/a	MP1	C							
15	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C							
15	Ammonium Sulfate	100	DF	3	lb/a	MP1	C							
16	Prowl H2O	3.8	L	2	pt/a	MP1	C	0	0	98	99	100		
16	Status	56	DF	2.5	oz/a	MP1	C							
16	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C							
16	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C							
17	Verdict	5.6	L	15	fl oz/a	PRE	A	0	0	84	92	94		
17	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
17	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
18	Ignite 280	2.34	L	22	fl oz/a	EP	B	0	0	80	97	100		
18	Atrazine	4	L	1.5	qt/a	EP	B							
18	Ammonium Sulfate	100	DF	3	lb/a	EP	B							
19	SureStart	4.18	SE	1.75	pt/a	PRE	A	0	0	92	98	99		
19	Durango DMA	4	SL	24	fl oz/a	LP	E							
19	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E							
20	TripleFlex	4.16	EW	1	qt/a	PRE	A	0	0	83	93	95		
20	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
21	Resolve	25	SG	1	oz/a	PRE	A	0	0	87	94	96		
21	Atrazine	4	L	1	qt/a	PRE	A							
21	Abundit Extra		L	1	qt/a	MP2	D							
21	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
22	Guardsman Max	5	L	2.5	pt/a	PRE	A	4	0	95	98	100		
22	Status	56	DF	2.5	oz/a	MP2	D							
22	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
22	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
23	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	A	0	0	99	100	100		
23	Halex GT	4.39	L	3.6	pt/a	MP2	D							
23	Activator 90		L	0.25	% v/v	MP2	D							
23	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2	D							
24	Harness Xtra 5.6	5.6	L	3	pt/a	PRE	A	0	0	88	96	100		
24	Impact	2.8	SC	0.5	fl oz/a	MP2	D							
24	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D							
24	Atrazine	4	L	1	pt/a	MP2	D							
24	Destiny HC		L	0.5	% v/v	MP2	D							
24	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D							
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C	0	0	98	96	99		
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C							
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	LP	E							
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E							

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Weed Code									ANGR	CHEAL	AMARE
Crop Code									ZEAMX	ZEAMX	
Rating Data Type									injury	injury	control
Rating Unit									percent	percent	percent
Rating Date									6/16/2011	6/24/2011	6/24/2011
Trt-Eval Interval									7 DAMP2	15 DAMP2	15 DAMP2
# Subsamples, Dec.									0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
26	Weed Free						B	0	0	100	100	100
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B					
26	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
26	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					

LSD (P=.05)	1.3	0.7	6.9	4.0	3.7
Standard Deviation	1.0	0.5	4.9	2.8	2.6
CV	179.94	1019.8	5.61	3.03	2.78

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code		AMBEL		ABUTH		ANGR		CHEAL		AMARE	
Crop Code											
Rating Data Type		control		control		control		control		control	
Rating Unit		percent		percent		percent		percent		percent	
Rating Date		6/24/2011		6/24/2011		7/7/2011		7/7/2011		7/7/2011	
Trt-Eval Interval		15 DAMP2		15 DAMP2		28 DAMP2		28 DAMP2		28 DAMP2	
# Subsamples, Dec.		0		0		0		0		0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Redesigned Lumax	3.94	SE	3	qt/a	PRE	A	94	96	85	98
1	Atrazine	4	L	1	qt/a	PRE	A				100
2	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	A	93	78	78	87
2	Resolve	25	SG	1	oz/a	PRE	A				99
3	Degree Xtra	4	L	2	qt/a	PRE	A	86	80	87	96
3	TripleFlex	4.16	EW	1	qt/a	PRE	A				100
4	Capreno	3.45	SC	3	fl oz/a	EP	B	99	98	80	99
4	Atrazine	4	L	1	qt/a	EP	B				100
4	Herbimax		L	1	% v/v	EP	B				
4	28% Nitrogen		L	1.5	qt/a	EP	B				
5	Capreno	3.45	SC	3	fl oz/a	MP1	C	100	100	71	100
5	Atrazine	4	L	1	qt/a	MP1	C				100
5	Herbimax		L	1	% v/v	MP1	C				
5	28% Nitrogen		L	1.5	qt/a	MP1	C				
6	Guardsman Max	5	L	2	qt/a	PRE	A	96	84	82	91
6	Status	56	DF	5	oz/a	MP2	D				100
6	Activator 90		L	0.25	% v/v	MP2	D				
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D				
7	Untreated						D	0	0	0	0
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	A	100	83	78	86
8	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D				99
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D				
9	SureStart	4.18	SE	1.75	pt/a	EP	B	98	90	91	100
9	Durango DMA	4	SL	24	fl oz/a	EP	B				100
9	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
10	TripleFlex	4.16	EW	1	qt/a	EP	B	96	87	93	98
10	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B				100
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
11	Resolve Q 1.25 oz	22.4	DG				B	100	86	84	100
11	Resolve	25	DF	0.25	oz ai/a	EP	B				
11	Harmony SG 50%	50	SG	0.05	oz ai/a	EP	B				
11	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B				
11	Atrazine	4	L	1	qt/a	EP	B				
11	Abundit Extra		L	1	qt/a	EP	B				
11	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
12	Realm Q 4 oz	38.7	DF			EP	B	100	99	81	100
12	Resolve	25	DF	0.3	oz/a	EP	B				
12	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B				
12	Mesotrione DRY	50	WG	1.25	oz ai/a	EP	B				
12	Atrazine	4	L	1	qt/a	EP	B				
12	Abundit Extra		L	1	qt/a	EP	B				
12	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
13	Halex GT	4.39	L	3.6	pt/a	MP1	C	98	99	97	100
13	Activator 90		L	0.25	% v/v	MP1	C				100
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C				

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411
Conducted: CAMPUS

Study Dir.: Andy Chomas
Investigator: Christy Sprague

Weed Code								AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code												
Rating Data Type								control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								6/24/2011	6/24/2011	7/7/2011	7/7/2011	7/7/2011
Trt-Eval Interval								15 DAMP2	15 DAMP2	28 DAMP2	28 DAMP2	28 DAMP2
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
14	Callisto Xtra	3.7	L	24	fl oz/a	MP1	C	100	100	91	100	100
14	Touchdown Total	4.17	L	24	fl oz/a	MP1	C					
14	Activator 90		L	0.25	% v/v	MP1	C					
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C					
15	Capreno	3.45	SC	3	fl oz/a	MP1	C	100	96	97	100	100
15	Atrazine	4	L	1	qt/a	MP1	C					
15	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C					
15	Ammonium Sulfate	100	DF	3	lb/a	MP1	C					
16	Prowl H2O	3.8	L	2	pt/a	MP1	C	100	98	97	100	100
16	Status	56	DF	2.5	oz/a	MP1	C					
16	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C					
16	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C					
17	Verdict	5.6	L	15	fl oz/a	PRE	A	99	85	79	92	100
17	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
17	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
18	Ignite 280	2.34	L	22	fl oz/a	EP	B	100	95	74	100	100
18	Atrazine	4	L	1.5	qt/a	EP	B					
18	Ammonium Sulfate	100	DF	3	lb/a	EP	B					
19	SureStart	4.18	SE	1.75	pt/a	PRE	A	99	95	86	93	100
19	Durango DMA	4	SL	24	fl oz/a	LP	E					
19	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E					
20	TripleFlex	4.16	EW	1	qt/a	PRE	A	100	80	78	89	99
20	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
21	Resolve	25	SG	1	oz/a	PRE	A	99	87	77	88	100
21	Atrazine	4	L	1	qt/a	PRE	A					
21	Abundit Extra		L	1	qt/a	MP2	D					
21	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
22	Guardsman Max	5	L	2.5	pt/a	PRE	A	100	84	89	89	100
22	Status	56	DF	2.5	oz/a	MP2	D					
22	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
22	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
23	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	A	100	100	99	100	100
23	Halex GT	4.39	L	3.6	pt/a	MP2	D					
23	Activator 90		L	0.25	% v/v	MP2	D					
23	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2	D					
24	Harness Xtra 5.6	5.6	L	3	pt/a	PRE	A	99	81	81	96	100
24	Impact	2.8	SC	0.5	fl oz/a	MP2	D					
24	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
24	Atrazine	4	L	1	pt/a	MP2	D					
24	Destiny HC		L	0.5	% v/v	MP2	D					
24	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C	100	90	94	95	99
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C					
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	LP	E					
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E					

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411 Study Dir.: Andy Chomas
Conducted: CAMPUS Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	6/24/2011	6/24/2011	7/7/2011	7/7/2011	7/7/2011
Trt-Eval Interval	15 DAMP2	15 DAMP2	28 DAMP2	28 DAMP2	28 DAMP2
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	ABUTH	ANGR	CHEAL	AMARE
26	Weed Free						B	100	100	100	100	100
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B					
26	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
26	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					

LSD (P=.05)	5.5	8.1	6.5	5.5	1.4
Standard Deviation	3.9	5.7	4.6	3.9	1.0
CV	4.13	6.54	5.55	4.21	1.03

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411
Conducted: CAMPUSStudy Dir.: Andy Chomas
Investigator: Christy Sprague

Weed Code		AMBEL		ABUTH		ANGR		CHEAL		AMARE	
Crop Code											
Rating Data Type		control		control		control		control		control	
Rating Unit		percent		percent		percent		percent		percent	
Rating Date		7/7/2011		7/7/2011		8/17/2011		8/17/2011		8/17/2011	
Trt-Eval Interval		28 DAMP2		28 DAMP2		65 DAMP2		65 DAMP2		65 DAMP2	
# Subsamples, Dec.		0		0		0		0		0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Redesigned Lumax	3.94	SE	3	qt/a	PRE	A	95	96	80	94
1	Atrazine	4	L	1	qt/a	PRE	A				100
2	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	A	95	83	70	77
2	Resolve	25	SG	1	oz/a	PRE	A				100
3	Degree Xtra	4	L	2	qt/a	PRE	A	84	90	80	93
3	TripleFlex	4.16	EW	1	qt/a	PRE	A				100
4	Capreno	3.45	SC	3	fl oz/a	EP	B	100	100	73	100
4	Atrazine	4	L	1	qt/a	EP	B				
4	Herbimax		L	1	% v/v	EP	B				
4	28% Nitrogen		L	1.5	qt/a	EP	B				
5	Capreno	3.45	SC	3	fl oz/a	MP1	C	100	100	61	99
5	Atrazine	4	L	1	qt/a	MP1	C				
5	Herbimax		L	1	% v/v	MP1	C				
5	28% Nitrogen		L	1.5	qt/a	MP1	C				
6	Guardsman Max	5	L	2	qt/a	PRE	A	100	89	76	83
6	Status	56	DF	5	oz/a	MP2	D				
6	Activator 90		L	0.25	% v/v	MP2	D				
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D				
7	Untreated						D	0	0	0	0
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	A	100	81	69	76
8	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D				
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D				
9	SureStart	4.18	SE	1.75	pt/a	EP	B	98	98	86	96
9	Durango DMA	4	SL	24	fl oz/a	EP	B				
9	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
10	TripleFlex	4.16	EW	1	qt/a	EP	B	100	95	87	94
10	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B				
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
11	Resolve Q 1.25 oz	22.4	DG				B	100	90	74	95
11	Resolve	25	DF	0.25	oz ai/a	EP	B				
11	Harmony SG 50%	50	SG	0.05	oz ai/a	EP	B				
11	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B				
11	Atrazine	4	L	1	qt/a	EP	B				
11	Abundit Extra		L	1	qt/a	EP	B				
11	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
12	Realm Q 4 oz	38.7	DF			EP	B	100	100	73	100
12	Resolve	25	DF	0.3	oz/a	EP	B				
12	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B				
12	Mesotrione DRY	50	WG	1.25	oz ai/a	EP	B				
12	Atrazine	4	L	1	qt/a	EP	B				
12	Abundit Extra		L	1	qt/a	EP	B				
12	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B				
13	Halex GT	4.39	L	3.6	pt/a	MP1	C	100	100	88	96
13	Activator 90		L	0.25	% v/v	MP1	C				
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C				

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411
Conducted: CAMPUSStudy Dir.: Andy Chomas
Investigator: Christy Sprague

Weed Code								AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code												
Rating Data Type								control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								7/7/2011	7/7/2011	8/17/2011	8/17/2011	8/17/2011
Trt-Eval Interval								28 DAMP2	28 DAMP2	65 DAMP2	65 DAMP2	65 DAMP2
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
14	Callisto Xtra	3.7	L	24	fl oz/a	MP1	C	99	100	75	100	100
14	Touchdown Total	4.17	L	24	fl oz/a	MP1	C					
14	Activator 90		L	0.25	% v/v	MP1	C					
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C					
15	Capreno	3.45	SC	3	fl oz/a	MP1	C	100	98	90	100	100
15	Atrazine	4	L	1	qt/a	MP1	C					
15	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C					
15	Ammonium Sulfate	100	DF	3	lb/a	MP1	C					
16	Prowl H2O	3.8	L	2	pt/a	MP1	C	100	99	93	100	100
16	Status	56	DF	2.5	oz/a	MP1	C					
16	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C					
16	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C					
17	Verdict	5.6	L	15	fl oz/a	PRE	A	100	92	70	76	98
17	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
17	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
18	Ignite 280	2.34	L	22	fl oz/a	EP	B	100	98	68	98	100
18	Atrazine	4	L	1.5	qt/a	EP	B					
18	Ammonium Sulfate	100	DF	3	lb/a	EP	B					
19	SureStart	4.18	SE	1.75	pt/a	PRE	A	96	96	77	78	98
19	Durango DMA	4	SL	24	fl oz/a	LP	E					
19	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E					
20	TripleFlex	4.16	EW	1	qt/a	PRE	A	99	88	66	81	99
20	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
21	Resolve	25	SG	1	oz/a	PRE	A	100	90	72	76	99
21	Atrazine	4	L	1	qt/a	PRE	A					
21	Abundit Extra		L	1	qt/a	MP2	D					
21	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
22	Guardsman Max	5	L	2.5	pt/a	PRE	A	100	87	82	78	100
22	Status	56	DF	2.5	oz/a	MP2	D					
22	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
22	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
23	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	A	100	100	100	100	100
23	Halex GT	4.39	L	3.6	pt/a	MP2	D					
23	Activator 90		L	0.25	% v/v	MP2	D					
23	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2	D					
24	Harness Xtra 5.6	5.6	L	3	pt/a	PRE	A	100	88	75	83	100
24	Impact	2.8	SC	0.5	fl oz/a	MP2	D					
24	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
24	Atrazine	4	L	1	pt/a	MP2	D					
24	Destiny HC		L	0.5	% v/v	MP2	D					
24	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C	98	91	74	86	100
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C					
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	LP	E					
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E					

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411 Study Dir.: Andy Chomas
Conducted: CAMPUS Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	ANGR	CHEAL	AMARE
Crop Code					
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/7/2011	7/7/2011	8/17/2011	8/17/2011	8/17/2011
Trt-Eval Interval	28 DAMP2	28 DAMP2	65 DAMP2	65 DAMP2	65 DAMP2
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	ABUTH	ANGR	CHEAL	AMARE
26	Weed Free						B	100	100	99	100	100
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B					
26	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B					
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D					
26	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D					

LSD (P=.05)	5.6	8.2	6.2	7.7	2.3
Standard Deviation	4.0	5.8	4.4	5.5	1.6
CV	4.21	6.41	5.81	6.31	1.72

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411
Conducted: CAMPUSStudy Dir.: Andy Chomas
Investigator: Christy Sprague

Weed Code		AMBEL		ABUTH		ZEAMX				
Crop Code		control		control		yield				
Rating Data Type		percent		percent		bu/ac				
Rating Unit		8/17/2011		8/17/2011		10/18/2011				
Rating Date		65 DAMP2		65 DAMP2		HARVEST				
Trt-Eval Interval		0		0		0				
# Subsamples, Dec.										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Redesigned Lumax	3.94	SE	3	qt/a	PRE	A	95	99	229
1	Atrazine	4	L	1	qt/a	PRE	A			
2	Breakfree ATZ	5.25	L	2.2	qt/a	PRE	A	90	95	218
2	Resolve	25	SG	1	oz/a	PRE	A			
3	Degree Xtra	4	L	2	qt/a	PRE	A	82	98	215
3	TripleFlex	4.16	EW	1	qt/a	PRE	A			
4	Capreno	3.45	SC	3	fl oz/a	EP	B	100	100	221
4	Atrazine	4	L	1	qt/a	EP	B			
4	Herbimax		L	1	% v/v	EP	B			
4	28% Nitrogen		L	1.5	qt/a	EP	B			
5	Capreno	3.45	SC	3	fl oz/a	MP1	C	100	100	213
5	Atrazine	4	L	1	qt/a	MP1	C			
5	Herbimax		L	1	% v/v	MP1	C			
5	28% Nitrogen		L	1.5	qt/a	MP1	C			
6	Guardsman Max	5	L	2	qt/a	PRE	A	100	100	213
6	Status	56	DF	5	oz/a	MP2	D			
6	Activator 90		L	0.25	% v/v	MP2	D			
6	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
7	Untreated						D	0	0	106
8	Harness Xtra 5.6	5.6	L	1.5	qt/a	PRE	A	100	98	227
8	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D			
8	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
9	SureStart	4.18	SE	1.75	pt/a	EP	B	100	100	225
9	Durango DMA	4	SL	24	fl oz/a	EP	B			
9	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B			
10	TripleFlex	4.16	EW	1	qt/a	EP	B	100	100	228
10	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B			
10	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B			
11	Resolve Q 1.25 oz	22.4	DG				B	100	100	223
11	Resolve	25	DF	0.25	oz ai/a	EP	B			
11	Harmony SG 50%	50	SG	0.05	oz ai/a	EP	B			
11	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B			
11	Atrazine	4	L	1	qt/a	EP	B			
11	Abundit Extra		L	1	qt/a	EP	B			
11	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B			
12	Realm Q 4 oz	38.7	DF			EP	B	100	99	218
12	Resolve	25	DF	0.3	oz/a	EP	B			
12	Isoxadifen-Ethyl	50	DF	0.15	oz ai/a	EP	B			
12	Mesotrione DRY	50	WG	1.25	oz ai/a	EP	B			
12	Atrazine	4	L	1	qt/a	EP	B			
12	Abundit Extra		L	1	qt/a	EP	B			
12	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B			
13	Halex GT	4.39	L	3.6	pt/a	MP1	C	100	100	230
13	Activator 90		L	0.25	% v/v	MP1	C			
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C			

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411
 Conducted: CAMPUS

Study Dir.: Andy Chomas
 Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	ZEAMX							
Crop Code										
Rating Data Type	control	control	yield							
Rating Unit	percent	percent	bu/ac							
Rating Date	8/17/2011	8/17/2011	10/18/2011							
Trt-Eval Interval	65 DAMP2	65 DAMP2	HARVEST							
# Subsamples, Dec.	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
14	Callisto Xtra	3.7	L	24	fl oz/a	MP1	C	99	100	220
14	Touchdown Total	4.17	L	24	fl oz/a	MP1	C			
14	Activator 90		L	0.25	% v/v	MP1	C			
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP1	C			
15	Capreno	3.45	SC	3	fl oz/a	MP1	C	100	100	225
15	Atrazine	4	L	1	qt/a	MP1	C			
15	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C			
15	Ammonium Sulfate	100	DF	3	lb/a	MP1	C			
16	Prowl H2O	3.8	L	2	pt/a	MP1	C	100	100	218
16	Status	56	DF	2.5	oz/a	MP1	C			
16	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C			
16	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C			
17	Verdict	5.6	L	15	fl oz/a	PRE	A	100	100	225
17	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D			
17	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
18	Ignite 280	2.34	L	22	fl oz/a	EP	B	100	98	216
18	Atrazine	4	L	1.5	qt/a	EP	B			
18	Ammonium Sulfate	100	DF	3	lb/a	EP	B			
19	SureStart	4.18	SE	1.75	pt/a	PRE	A	99	98	223
19	Durango DMA	4	SL	24	fl oz/a	LP	E			
19	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E			
20	TripleFlex	4.16	EW	1	qt/a	PRE	A	99	96	216
20	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D			
20	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
21	Resolve	25	SG	1	oz/a	PRE	A	100	99	214
21	Atrazine	4	L	1	qt/a	PRE	A			
21	Abundit Extra		L	1	qt/a	MP2	D			
21	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
22	Guardsman Max	5	L	2.5	pt/a	PRE	A	100	100	220
22	Status	56	DF	2.5	oz/a	MP2	D			
22	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D			
22	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
23	Bicep II Magnum	5.5	L	1.1	qt/a	PRE	A	100	100	231
23	Halex GT	4.39	L	3.6	pt/a	MP2	D			
23	Activator 90		L	0.25	% v/v	MP2	D			
23	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP2	D			
24	Harness Xtra 5.6	5.6	L	3	pt/a	PRE	A	98	98	228
24	Impact	2.8	SC	0.5	fl oz/a	MP2	D			
24	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D			
24	Atrazine	4	L	1	pt/a	MP2	D			
24	Destiny HC		L	0.5	% v/v	MP2	D			
24	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP1	C	100	98	221
25	Ammonium Sulfate	100	DF	17	lb/100 gal	MP1	C			
25	Roundup PowerMAX	4.5	SL	22	fl oz/a	LP	E			
25	Ammonium Sulfate	100	DF	17	lb/100 gal	LP	E			

MSU Weed Science Research Program

COMPARISON OF COMMERCIAL HERBICIDE PROGRAMS IN CORN, 2011

Trial ID: C0411 Study Dir.: Andy Chomas
Conducted: CAMPUS Investigator: Christy Sprague

Weed Code	AMBEL	ABUTH	
Crop Code			ZEAMX
Rating Data Type	control	control	yield
Rating Unit	percent	percent	bu/ac
Rating Date	8/17/2011	8/17/2011	10/18/2011
Trt-Eval Interval	65 DAMP2	65 DAMP2	HARVEST
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
26	Weed Free						B	100	100	228
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	EP	B			
26	Ammonium Sulfate	100	DF	17	lb/100 gal	EP	B			
26	Roundup PowerMAX	4.5	SL	22	fl oz/a	MP2	D			
26	Ammonium Sulfate	100	DF	17	lb/100 gal	MP2	D			

LSD (P=.05)	5.9	3.7	22.5
Standard Deviation	4.2	2.6	15.9
CV	4.42	2.75	7.31

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.