

MSU Weed Science Research Program

POSTEMERGENCE WEED CONTROL WITH RESOLVE, ACCENT, STEADFAST AND
MESOTRIONE, 2009

Trial ID: C0109

Conducted: CAMPUS

Study Dir.: Andy Chomas

Investigator: Wesley Everman

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	CUB	3.5	FF	8003	19"	20"	100"	20	H2O	30	
B	CUB	3.5	FF	8003	22"	20"	100"	20	H2O	30	

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							ANGR	CHEAL	AMARE	ABUTH			ANGR	
							ZEAMX					ZEAMX		
							injury	control	control	control	control	injury	control	control
							percent	percent	percent	percent	percent	percent	percent	percent
							6/18/09	6/18/09	6/18/09	6/18/09	6/18/09	6/30/09	6/30/09	6/30/09
							15 DAPO	15 DAPO	15 DAPO	15 DAPO	15 DAPO	27 DAPO	27 DAPO	27 DAPO
ARM Action Codes														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	
1	Resolve	25	DF	0.3	oz ai/a	POST	0	91	100	99	100	0	81	
1	Callisto	50	DF	1.25	oz ai/a	POST								
1	Herbimax		L	1	% v/v	POST								
1	Ammonium Sulfate	100	DF	2	lb/a	POST								
2	Cinch ATZ	5.5	L	1	qt/a	PRE	0	99	100	100	100	0	88	
2	Resolve	25	DF	0.3	oz ai/a	POST								
2	Callisto	50	DF	1.25	oz ai/a	POST								
2	Herbimax		L	1	% v/v	POST								
2	Ammonium Sulfate	100	DF	2	lb/a	POST								
3	Resolve	25	DF	0.3	oz ai/a	POST	0	99	100	100	100	0	83	
3	Callisto	50	DF	1.25	oz ai/a	POST								
3	Roundup PowerMAX	4.5	L	22	fl oz/a	POST								
3	Ammonium Sulfate	100	DF	2	lb/a	POST								
4	Resolve	25	DF	0.3	oz ai/a	POST	0	99	99	100	100	0	82	
4	Callisto	50	DF	1.25	oz ai/a	POST								
4	Ignite 280	2.34	L	22	fl oz/a	POST								
4	Ammonium Sulfate	100	DF	2	lb/a	POST								
5	Resolve	25	DF	0.3	oz ai/a	POST	0	78	100	100	100	0	68	
5	Callisto	50	DF	1.25	oz ai/a	POST								
5	Atrazine 90 DF	90	DF	1	lb/a	POST								
5	Herbimax		L	1	% v/v	POST								
5	Ammonium Sulfate	100	DF	2	lb/a	POST								
6	Resolve	25	DF	0.25	oz ai/a	POST	0	87	100	100	100	0	83	
6	Harmony SG 50%	50	SG	0.05	oz ai/a	POST								
6	Callisto	50	DF	1.25	oz ai/a	POST								
6	Herbimax		L	1	% v/v	POST								
6	Ammonium Sulfate	100	DF	2	lb/a	POST								
7	Accent	75	DF	0.5	oz ai/a	POST	0	79	100	100	100	0	76	
7	Callisto	50	DF	1.25	oz ai/a	POST								
7	Herbimax		L	1	% v/v	POST								
7	Ammonium Sulfate	100	DF	2	lb/a	POST								
8	Steadfast	75	WG	0.5625	oz ai/a	POST	0	89	98	100	99	0	86	
8	Callisto	50	DF	1.25	oz ai/a	POST								
8	Herbimax		L	1	% v/v	POST								
8	Ammonium Sulfate	100	DF	2	lb/a	POST								
9	Dual II Magnum	7.64	L	1.33	pt/a	PRE	0	100	100	100	100	0	96	
9	Resolve	25	DF	0.3	oz ai/a	POST								
9	Callisto	50	DF	1.25	oz ai/a	POST								
9	Herbimax		L	1	% v/v	POST								
9	Ammonium Sulfate	100	DF	2	lb/a	POST								
10	Non-Treated						0	0	0	0	0	0	0	
LSD (P=.05)							0.0	3.3	1.8	0.6	1.0	0.0	5.8	
Standard Deviation							0.0	1.9	1.0	0.4	0.6	0.0	3.4	
CV							0.0	2.34	1.14	0.42	0.62	0.0	4.54	

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Weed Code	CHEAL	AMARE	ABUTH	ANGR	CHEAL	AMARE	ABUTH
Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/30/09	6/30/09	6/30/09	7/28/09	7/28/09	7/28/09	7/28/09
Trt-Eval Interval	27 DAPO	27 DAPO	27 DAPO	55 DAPO	55 DAPO	55 DAPO	55 DAPO
ARM Action Codes							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	8	9	10	11	12	13	14
1	Resolve	25	DF	0.3	oz ai/a	POST	98	100	100	74	98	100	98
1	Callisto	50	DF	1.25	oz ai/a	POST							
1	Herbimax		L	1	% v/v	POST							
1	Ammonium Sulfate	100	DF	2	lb/a	POST							
2	Cinch ATZ	5.5	L	1	qt/a	PRE	100	100	100	76	95	100	100
2	Resolve	25	DF	0.3	oz ai/a	POST							
2	Callisto	50	DF	1.25	oz ai/a	POST							
2	Herbimax		L	1	% v/v	POST							
2	Ammonium Sulfate	100	DF	2	lb/a	POST							
3	Resolve	25	DF	0.3	oz ai/a	POST	100	98	99	77	99	100	100
3	Callisto	50	DF	1.25	oz ai/a	POST							
3	Roundup PowerMAX	4.5	L	22	fl oz/a	POST							
3	Ammonium Sulfate	100	DF	2	lb/a	POST							
4	Resolve	25	DF	0.3	oz ai/a	POST	100	100	100	77	100	100	99
4	Callisto	50	DF	1.25	oz ai/a	POST							
4	Ignite 280	2.34	L	22	fl oz/a	POST							
4	Ammonium Sulfate	100	DF	2	lb/a	POST							
5	Resolve	25	DF	0.3	oz ai/a	POST	100	100	100	68	100	100	100
5	Callisto	50	DF	1.25	oz ai/a	POST							
5	Atrazine 90 DF	90	DF	1	lb/a	POST							
5	Herbimax		L	1	% v/v	POST							
5	Ammonium Sulfate	100	DF	2	lb/a	POST							
6	Resolve	25	DF	0.25	oz ai/a	POST	100	100	100	75	100	100	100
6	Harmony SG 50%	50	SG	0.05	oz ai/a	POST							
6	Callisto	50	DF	1.25	oz ai/a	POST							
6	Herbimax		L	1	% v/v	POST							
6	Ammonium Sulfate	100	DF	2	lb/a	POST							
7	Accent	75	DF	0.5	oz ai/a	POST	100	100	100	70	98	100	100
7	Callisto	50	DF	1.25	oz ai/a	POST							
7	Herbimax		L	1	% v/v	POST							
7	Ammonium Sulfate	100	DF	2	lb/a	POST							
8	Steadfast	75	WG	0.5625	oz ai/a	POST	100	100	100	78	100	100	99
8	Callisto	50	DF	1.25	oz ai/a	POST							
8	Herbimax		L	1	% v/v	POST							
8	Ammonium Sulfate	100	DF	2	lb/a	POST							
9	Dual II Magnum	7.64	L	1.33	pt/a	PRE	100	100	100	89	98	100	100
9	Resolve	25	DF	0.3	oz ai/a	POST							
9	Callisto	50	DF	1.25	oz ai/a	POST							
9	Herbimax		L	1	% v/v	POST							
9	Ammonium Sulfate	100	DF	2	lb/a	POST							
10	Non-Treated						0	0	0	0	0	0	0
LSD (P=.05)							1.6	1.6	0.6	5.3	4.0	0.0	1.9
Standard Deviation							0.9	0.9	0.4	3.1	2.3	0.0	1.1
CV							1.04	1.04	0.42	4.47	2.59	0.0	1.2