



MSU Weed Science Research Program

COMPARISONS OF ADJUVANTS ON LAUDIS EFFICACY IN CORN, 2009

Trial ID: C1209  
Conducted: CAMPUS

Study Dir.: Andy Chomas  
Investigator: Wesley Everman

Weed Density (plants/sq. ft.)

1  
Date: 6/12/09  
Weed Name: ANGR  
Density: 33  
Date: 6/12/09  
Weed Name: CHEAL  
Density: 62  
Date: 6/12/09  
Weed Name: AMARE  
Density: 3  
Date: 6/12/09  
Weed Name: AMBEL  
Density: 0  
Date: 6/12/09  
Weed Name: ABUTH  
Density: 1

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	28"	20"	100"	20	H2O	30	

MSU Weed Science Research Program

COMPARISONS OF ADJUVANTS ON LAUDIS EFFICACY IN CORN, 2009

Trial ID: C1209  
 Conducted: CAMPUS

Study Dir.: Andy Chomas  
 Investigator: Wesley Everman

Weed Code							ANGR	CHEAL	AMARE	ABUTH		ANGR	CHEAL
Crop Code							ZEAMX				ZEAMX		
Rating Data Type							injury	control	control	control	injury	control	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent
Rating Date							6/18/09	6/18/09	6/18/09	6/18/09	6/18/09	6/26/09	6/26/09
Trt-Eval Interval							6 DAMP	6 DAMP	6 DAMP	6 DAMP	6 DAMP	14 DAMP	14 DAMP
ARM Action Codes													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	1	2	3	4	5	6	7	8
1	Non-Treated						0	0	0	0	0	0	0	0
2	Laudis	3.5	SC	3	fl oz/a	MP	0	93	93	100	98	0	81	100
2	Atrazine	4	L	1	pt/a	MP								
2	MSO (Loveland)		L	1	% v/v	MP								
2	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
3	Laudis	3.5	SC	3	fl oz/a	MP	0	95	88	100	97	0	81	100
3	Atrazine	4	L	1	pt/a	MP								
3	MSO (Loveland)		L	0.75	% v/v	MP								
3	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
4	Laudis	3.5	SC	3	fl oz/a	MP	0	72	38	73	83	0	63	87
4	Atrazine	4	L	1	pt/a	MP								
4	MSO (Loveland)		L	0.5	% v/v	MP								
4	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
5	Laudis	3.5	SC	3	fl oz/a	MP	2	73	53	83	90	0	64	90
5	Atrazine	4	L	1	pt/a	MP								
5	Destiny HC		L	0.5	% v/v	MP								
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
6	Laudis	3.5	SC	3	fl oz/a	MP	2	95	96	100	100	0	73	100
6	Atrazine	4	L	1	pt/a	MP								
6	Dyne-Amic		L	0.5	% v/v	MP								
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
7	Laudis	3.5	SC	3	fl oz/a	MP	0	93	99	100	100	0	79	100
7	Atrazine	4	L	1	pt/a	MP								
7	Superspread MSO		L	1.5	pt/a	MP								
7	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
8	Laudis	3.5	SC	3	fl oz/a	MP	0	96	99	100	100	0	80	100
8	Atrazine	4	L	1	pt/a	MP								
8	MSO (Loveland)		L	1.2	pt/a	MP								
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
9	Laudis	3.5	SC	3	fl oz/a	MP	0	93	98	97	100	0	78	100
9	Atrazine	4	L	1	pt/a	MP								
9	MSO (Loveland)		L	1	pt/a	MP								
9	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
10	Laudis	3.5	SC	3	fl oz/a	MP	2	67	47	87	90	0	60	73
10	Atrazine	4	L	1	pt/a	MP								
10	MSO (Loveland)		L	0.8	pt/a	MP								
10	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								

LSD (P=.05)	2.7	10.2	20.2	14.6	7.4	0.0	8.3	10.6
Standard Deviation	1.6	5.9	11.8	8.5	4.3	0.0	4.8	6.2
CV	290.7	7.63	16.58	10.1	5.0	0.0	7.34	7.28

MSU Weed Science Research Program  
 COMPARISONS OF ADJUVANTS ON LAUDIS EFFICACY IN CORN, 2009

Trial ID: C1209  
 Conducted: CAMPUS

Study Dir.: Andy Chomas  
 Investigator: Wesley Everman

Weed Code	AMARE	ABUTH	ZEAMX	ANGR	CHEAL	AMARE	ABUTH	ANGR
Crop Code								
Rating Data Type	control	control	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/26/09	6/26/09	7/10/09	7/10/09	7/10/09	7/10/09	7/10/09	7/24/09
Trt-Eval Interval	14 DAMP	14 DAMP	28 DAMP	28 DAMP	28 DAMP	28 DAMP	28 DAMP	42 DAMP
ARM Action Codes								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	9	10	11	12	13	14	15	16
1	Non-Treated						0	0	0	0	0	0	0	0
2	Laudis	3.5	SC	3	fl oz/a	MP	100	97	0	74	100	96	100	74
2	Atrazine	4	L	1	pt/a	MP								
2	MSO (Loveland)		L	1	% v/v	MP								
2	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
3	Laudis	3.5	SC	3	fl oz/a	MP	100	100	0	72	100	98	99	72
3	Atrazine	4	L	1	pt/a	MP								
3	MSO (Loveland)		L	0.75	% v/v	MP								
3	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
4	Laudis	3.5	SC	3	fl oz/a	MP	93	93	0	57	97	93	98	57
4	Atrazine	4	L	1	pt/a	MP								
4	MSO (Loveland)		L	0.5	% v/v	MP								
4	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
5	Laudis	3.5	SC	3	fl oz/a	MP	90	97	0	57	98	88	94	58
5	Atrazine	4	L	1	pt/a	MP								
5	Destiny HC		L	0.5	% v/v	MP								
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
6	Laudis	3.5	SC	3	fl oz/a	MP	100	100	0	69	100	96	100	68
6	Atrazine	4	L	1	pt/a	MP								
6	Dyne-Amic		L	0.5	% v/v	MP								
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
7	Laudis	3.5	SC	3	fl oz/a	MP	100	100	0	71	100	97	100	70
7	Atrazine	4	L	1	pt/a	MP								
7	Superspread MSO		L	1.5	pt/a	MP								
7	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
8	Laudis	3.5	SC	3	fl oz/a	MP	100	100	0	69	97	98	100	69
8	Atrazine	4	L	1	pt/a	MP								
8	MSO (Loveland)		L	1.2	pt/a	MP								
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
9	Laudis	3.5	SC	3	fl oz/a	MP	100	100	0	67	100	99	100	70
9	Atrazine	4	L	1	pt/a	MP								
9	MSO (Loveland)		L	1	pt/a	MP								
9	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								
10	Laudis	3.5	SC	3	fl oz/a	MP	73	92	0	55	97	91	97	59
10	Atrazine	4	L	1	pt/a	MP								
10	MSO (Loveland)		L	0.8	pt/a	MP								
10	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP								

LSD (P=.05)	10.9	7.8	0.0	6.5	3.9	7.6	4.1	6.9
Standard Deviation	6.4	4.6	0.0	3.8	2.3	4.5	2.4	4.1
CV	7.42	5.2	0.0	6.46	2.57	5.2	2.72	6.79

MSU Weed Science Research Program

COMPARISONS OF ADJUVANTS ON LAUDIS EFFICACY IN CORN, 2009

Trial ID: C1209  
 Conducted: CAMPUS

Study Dir.: Andy Chomas  
 Investigator: Wesley Everman

Weed Code	CHEAL	AMARE	ABUTH	
Crop Code				ZEAMX
Rating Data Type	control	control	control	yield
Rating Unit	percent	percent	percent	bu/ac
Rating Date	7/24/09	7/24/09	7/24/09	11/5/09
Trt-Eval Interval	42 DAMP	42 DAMP	42 DAMP	HARVEST
ARM Action Codes				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	17	18	19	20
1	Non-Treated						0	0	0	119
2	Laudis	3.5	SC	3	fl oz/a	MP	100	98	100	234
2	Atrazine	4	L	1	pt/a	MP				
2	MSO (Loveland)		L	1	% v/v	MP				
2	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
3	Laudis	3.5	SC	3	fl oz/a	MP	100	100	100	227
3	Atrazine	4	L	1	pt/a	MP				
3	MSO (Loveland)		L	0.75	% v/v	MP				
3	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
4	Laudis	3.5	SC	3	fl oz/a	MP	100	100	100	224
4	Atrazine	4	L	1	pt/a	MP				
4	MSO (Loveland)		L	0.5	% v/v	MP				
4	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
5	Laudis	3.5	SC	3	fl oz/a	MP	97	90	100	217
5	Atrazine	4	L	1	pt/a	MP				
5	Destiny HC		L	0.5	% v/v	MP				
5	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
6	Laudis	3.5	SC	3	fl oz/a	MP	100	100	100	230
6	Atrazine	4	L	1	pt/a	MP				
6	Dyne-Amic		L	0.5	% v/v	MP				
6	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
7	Laudis	3.5	SC	3	fl oz/a	MP	100	100	100	238
7	Atrazine	4	L	1	pt/a	MP				
7	Superspread MSO		L	1.5	pt/a	MP				
7	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
8	Laudis	3.5	SC	3	fl oz/a	MP	100	100	100	225
8	Atrazine	4	L	1	pt/a	MP				
8	MSO (Loveland)		L	1.2	pt/a	MP				
8	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
9	Laudis	3.5	SC	3	fl oz/a	MP	98	100	100	226
9	Atrazine	4	L	1	pt/a	MP				
9	MSO (Loveland)		L	1	pt/a	MP				
9	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
10	Laudis	3.5	SC	3	fl oz/a	MP	100	100	97	213
10	Atrazine	4	L	1	pt/a	MP				
10	MSO (Loveland)		L	0.8	pt/a	MP				
10	Ammonium Sulfate	100	DF	8.5	lb/100 gal	MP				
LSD (P=.05)							3.3	7.4	3.1	25.0
Standard Deviation							1.9	4.3	1.8	14.6
CV							2.18	4.86	2.04	6.77