

Adjuvant Studies, Corn or Soybean

12-05-05 (05-22-M90)

Southern Illinois University

Water Conditioning Efficacy with Loaded Glyphosate Products - United Suppliers.

Project Code: 05-22-M90 Location: Belleville Research Center
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final Updated: 11-14-05

Objective:

Compare glyphosate efficacy in hard water with four experimental water conditioners compared to Speedway and AMS.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMATA	waterhemp, common	Amaranthus rudis Sauer
3. ABUTH	velvetleaf	Abutilon theophrasti Medicus
4. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.

Crop 1: GLXMA soybean Variety: Asgrow 4403 RR
Planting Method: Seeded Planting Date: 5-18-05
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 23 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: ZEAMX, 2004

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Clarksdale % OM: 2.1 pH: 6.5 CEC: 10
Texture: Silt loam Fert. Level: P1: 99 LB/A, K: 493 LB/A

APPLICATION DESCRIPTION

A
Application Date: 06-16-05
Time of Day: 9:30
Application Method: Spray
Application Timing: 3-5"W
Applic. Placement: BROFOL
Air Temp., Unit: 74 F
% Relative Humidity: 50
Wind Velocity, Unit: 2 MPH
Soil Moisture: ABONOR

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: GLXMA V2
Height, Unit: 5-6 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: SETFA
Stage (leaves): 5-7
Height (inches): 5-6
Density: Medium
Weed 2 Code: AMATA
Stage (leaves): 8-10
Height (inches): 5-6
Density: Low
Weed 3 Code: ABUTH
Stage (leaves): 5-7
Height (inches): 5-6
Density: Medium
Weed 4 Code: IPOHE
Stage (leaves): 8-10
Height (inches): 4-6
Density: Medium

APPLICATION EQUIPMENT

A
Appl. Equipment: CO2 sprayer
Operating Pressure: 40 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 110015
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 12.5 GPA

NOTES:

Water Conditioning Efficacy with Loaded Glyphosate Products - United Suppliers.

Project Code: 05-22-M90 Location: Belleville Research Center
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Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	GLXMA	GLXMA	SETFA	SETFA	SETFA
									Injury Percent	Injury Percent	Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent
									06-19-05	06-23-05	06-30-05	07-07-05	06-23-05	06-30-05	07-07-05
									3 DA-A	7 DA-A	14 DA-A	21 DA-A	7 DA-A	14 DA-A	21 DA-A
1	HARD WATER (350 PPM)								0	0	0	0	90	98	99
1	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
1	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
2	HARD WATER (350 PPM)								0	0	0	0	90	98	99
2	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
2	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
3	HARD WATER (350 PPM)								0	0	0	0	90	98	99
3	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
3	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
4	HARD WATER (350 PPM)								0	0	0	0	90	98	99
4	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
4	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
5	HARD WATER (350 PPM)								0	0	0	0	90	98	99
5	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
5	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
6	HARD WATER (350 PPM)								0	0	0	0	90	98	99
6	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	W A							
7	HARD WATER (350 PPM)								0	0	0	0	90	98	99
7	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
7	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
8	HARD WATER (350 PPM)								0	0	0	0	90	98	99
8	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
8	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
9	HARD WATER (350 PPM)								0	0	0	0	90	98	99
9	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
9	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
10	HARD WATER (350 PPM)								0	0	0	0	90	98	99
10	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
10	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
11	HARD WATER (350 PPM)								0	0	0	0	90	98	99
11	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
11	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
12	HARD WATER (350 PPM)								0	0	0	0	90	98	99
12	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
12	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	W A							
13	HARD WATER (350 PPM)								0	0	0	0	90	98	99
13	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
13	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
14	HARD WATER (350 PPM)								0	0	0	0	90	98	99
14	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
14	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
15	HARD WATER (350 PPM)								0	0	0	0	90	98	99
15	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
15	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
16	HARD WATER (350 PPM)								0	0	0	0	90	98	99
16	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
16	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
17	HARD WATER (350 PPM)								0	0	0	0	90	98	99
17	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
17	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
18	HARD WATER (350 PPM)								0	0	0	0	90	98	99
18	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
18	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	W A							
19	NONTREATED								0	0	0	0	0	0	0

Water Conditioning Efficacy with Loaded Glyphosate Products - United Suppliers.

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	SETFA	SETFA	SETFA		
Crop Code	Injury	Injury	Injury	Injury	Control	Control	Control		
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit	06-19-05	06-23-05	06-30-05	07-07-05	06-23-05	06-30-05	07-07-05		
Rating Date	3 DA-A	7 DA-A	14 DA-A	21 DA-A	7 DA-A	14 DA-A	21 DA-A		
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code
LSD (P=.05)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Replicate F		0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Replicate Prob(F)		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Treatment F		0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Treatment Prob(F)		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	

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Project Code: 05-22-M90 Location: Belleville Research Center
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Weed Code										AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH
Crop Code										Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										06-23-05	06-30-05	07-07-05	06-23-05	06-30-05	07-07-05
Rating Date										7 DA-A	14 DA-A	21 DA-A	7 DA-A	14 DA-A	21 DA-A
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	HARD WATER (350 PPM)								95	99	99	73	82	83	
1	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
1	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
2	HARD WATER (350 PPM)								95	99	99	67	78	82	
2	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
2	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
3	HARD WATER (350 PPM)								95	99	99	65	70	75	
3	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
3	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
4	HARD WATER (350 PPM)								95	99	99	65	78	82	
4	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
4	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
5	HARD WATER (350 PPM)								95	99	99	62	70	75	
5	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
5	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
6	HARD WATER (350 PPM)								95	99	99	78	82	85	
6	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	W A							
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	W A							
7	HARD WATER (350 PPM)								95	99	99	73	78	80	
7	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
7	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
8	HARD WATER (350 PPM)								95	99	99	72	73	78	
8	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
8	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
9	HARD WATER (350 PPM)								95	99	99	67	73	78	
9	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
9	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
10	HARD WATER (350 PPM)								95	99	99	77	85	87	
10	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
10	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
11	HARD WATER (350 PPM)								95	99	99	75	80	85	
11	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
11	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
12	HARD WATER (350 PPM)								95	99	99	75	90	90	
12	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	W A							
12	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	W A							
13	HARD WATER (350 PPM)								95	98	99	63	72	75	
13	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
13	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
14	HARD WATER (350 PPM)								95	98	99	65	72	77	
14	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
14	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
15	HARD WATER (350 PPM)								95	99	99	70	88	88	
15	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
15	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
16	HARD WATER (350 PPM)								95	99	99	68	92	93	
16	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
16	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
17	HARD WATER (350 PPM)								95	99	99	67	90	90	
17	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
17	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	W A							
18	HARD WATER (350 PPM)								95	99	99	80	96	99	
18	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	W A							
18	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	W A							
19	NONTREATED								0	0	0	0	0	0	

Water Conditioning Efficacy with Loaded Glyphosate Products - United Suppliers.

Project Code: 05-22-M90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH						
Crop Code												
Rating Data Type	Control	Control	Control	Control	Control	Control						
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent						
Rating Date	06-23-05	06-30-05	07-07-05	06-23-05	06-30-05	07-07-05						
Trt-Eval Interval	7 DA-A	14 DA-A	21 DA-A	7 DA-A	14 DA-A	21 DA-A						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
LSD (P=.05)		0.0		1.3		0.0		3.9		5.6		5.1
Replicate F		0.000		0.486		0.000		2.908		3.525		2.177
Replicate Prob(F)		1.0000		0.6188		1.0000		0.0675		0.0400		0.1281
Treatment F		0.000		2674.923		0.000		154.367		106.533		128.236
Treatment Prob(F)		1.0000		0.0001		1.0000		0.0001		0.0001		0.0001

Water Conditioning Efficacy with Loaded Glyphosate Products - United Suppliers.

Project Code: 05-22-M90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	Control Percent	IPOHE	IPOHE	IPOHE
Crop Code	06-23-05	06-30-05	07-07-05	
Rating Data Type	7 DA-A	14 DA-A	21 DA-A	
Rating Unit				
Rating Date				
Tri-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	IPOHE	IPOHE	IPOHE
1	HARD WATER (350 PPM)								50	60	50
1	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	A			
1	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
2	HARD WATER (350 PPM)								50	60	50
2	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	A			
2	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
3	HARD WATER (350 PPM)								50	60	50
3	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	A			
3	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
4	HARD WATER (350 PPM)								50	60	50
4	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	A			
4	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
5	HARD WATER (350 PPM)								50	60	50
5	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	A			
5	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
6	HARD WATER (350 PPM)								50	60	50
6	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-5"	A			
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	A			
7	HARD WATER (350 PPM)								50	60	50
7	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	A			
7	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
8	HARD WATER (350 PPM)								50	60	50
8	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	A			
8	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
9	HARD WATER (350 PPM)								50	60	50
9	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	A			
9	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
10	HARD WATER (350 PPM)								50	60	50
10	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	A			
10	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
11	HARD WATER (350 PPM)								50	60	50
11	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	A			
11	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
12	HARD WATER (350 PPM)								50	60	50
12	GLY STAR PLUS	3	SL	0.75 lb ae/a	32	fl oz/a	3-5"	A			
12	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	A			
13	HARD WATER (350 PPM)								50	60	50
13	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	A			
13	SPEEDWAY	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
14	HARD WATER (350 PPM)								50	60	50
14	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	A			
14	USEXP1	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
15	HARD WATER (350 PPM)								50	60	50
15	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	A			
15	USEXP2	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
16	HARD WATER (350 PPM)								50	60	50
16	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	A			
16	USEXP3	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
17	HARD WATER (350 PPM)								50	60	50
17	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	A			
17	USEXP4	100	LIQ	0.25 % v/v	1	qt/100 gal	3-5"	A			
18	HARD WATER (350 PPM)								50	60	50
18	TOUCHDOWN TOTAL	4.17	SC	0.75 lb ae/a	23	fl oz/a	3-5"	A			
18	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-5"	A			
19	NONTREATED								0	0	0

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Project Code: 05-22-M90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code				IP0HE	IP0HE	IP0HE
Crop Code						
Rating Data Type				Control	Control	Control
Rating Unit				Percent	Percent	Percent
Rating Date				06-23-05	06-30-05	07-07-05
Trt-Eval Interval				7 DA-A	14 DA-A	21 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	IP0HE	IP0HE	IP0HE
	LSD (P=.05)									0.0	0.0	0.0
	Replicate F									0.000	0.000	0.000
	Replicate Prob(F)									1.0000	1.0000	1.0000
	Treatment F									0.000	0.000	0.000
	Treatment Prob(F)									1.0000	1.0000	1.0000

Trial Comments

1. Protocol: United Suppliers.
2. Ratings: CI 3 DAT; CI/WC 7, 14, and 21 DAT.
3. All treatments use hard water.
4. Hard water was created by adding CaCl₂ at concentration of 350 ppm of CaCO₃ equivalent.
5. DA-A = Days after 3-5"W application.