

Aug-21-02 (02-15)

Site Description

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Crabgrass Control with Dimension Formulations

Trial ID: 02-15
Location: PSRC-MSU

Investigator: G. E. Coats
Study Dir.: Weed Science

Project manager Jim Taylor
Cooperator name NA
Industry coop Darin Lickfeldt
Exp design Randomized Complete Block
Replicates 4
Plot size 5ft x 10ft
North from plot 101 to plot 108
Permanent turf
Type Bermudagrass
Cultivar Common
Mowing ht (in) 0.75
frequency As needed to remove 1/3 or less of canopy
mower type Reel
Soil texture Marietta fine sandy loam
clay % 37
silt % 33
sand % 30
OM % 2.7
pH 7.4
CEC meq/hg 16.1

Fertility All treatments were adjusted to receive the same amount of N at the time of application. Additional N applied at 1 lb/1000 sq ft in May and June.

Irrigation 0.5 inch following PREs, as needed to maintain canopy after.

Application information	Application #1	Application #2		
Date	Feb-28-02	Apr-24-02	_____	_____
Trt applied	1-8	1-8	_____	_____
Type appl	PRE	PRE	_____	_____
Start time	9:30 a.m.	3:15 p.m.	_____	_____
Finish time	10:20 a.m.	3:40 p.m.	_____	_____
Air temp F	40	80	___	___
RH %	70	63	___	___
Wind (mph)	2	3	___	___
fm plot to plot	101-408	101-108	_____	_____
Dew present	Y	N	-	-
Soil 2-in F	50	71	___	___
Cloud cover %	10	10	___	___
Granular appl	2 qt sand/plot	2 qt sand/plot	_____	_____

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Sprayer	BKPK	BKPK	_____	_____
PSI	18	18	___	___
Nozzle type	Flat fan	Flat fan	_____	_____
Nozzle size	8003VS	8003VS	_____	_____
Spacing (in)	18	18	___	___
Nozzles/boom	2	2	___	___
Boom ht (in)	18	18	___	___
Speed (mph)	2	2	___	___
Carrier	Water	Water	_____	_____
GPA	25	25	___	___
Applied by	JMT	JMT	___	___

Soil moisture @ trt	Good	_____	_____	_____
Nearest NOAA Stn	Mississippi State, MS			

Overseeded Turf	NA			
Date overseeded	_____			
Est % cover	___	___	___	___
Est % green	___	___	___	___
Comments	_____			

Permanent Turf	Bermudagrass			
Cultivar	Common			
[E]stabl/[N]ew Turf @ trt	E			
Est % cover	80	80	_____	_____
Est % green	< 1	60	_____	_____
Comments	_____			

Weeds				
Weed 1	None	DIGSP	_____	_____
Density	_____	5/sq ft	_____	_____
Height	_____	1"	_____	_____
Growth stage	_____	3-4 lf	_____	_____

Weed 2	_____	_____	_____	_____
Density	_____	_____	_____	_____
Height	_____	_____	_____	_____
Growth stage	_____	_____	_____	_____

Weed 3	_____	_____	_____	_____
Density	_____	_____	_____	_____
Height	_____	_____	_____	_____
Growth stage	_____	_____	_____	_____

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Crabgrass Control with Dimension Formulations

Trial ID: 02-15
 Location: PSRC-MSU

Investigator: G. E. Coats
 Study Dir.: Weed Science

Weed Code	DIGSP	DIGSP	DIGSP	DIGSP
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	Apr-17-02	May-15-02	Jun-13-02	Jul-22-02
Trt-Eval Interval	48 DA-A	76 DA-A	105 DA-A	144 DA-A
PRM Data Type	L05	L05	L05	L05
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form	Fm	Rate	Rate Unit	Grow Stg	Appl Code				
1	Dimension	40	WP	0.38	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	+ Blank fertilizer	40	G	4.6	LB/1000 FT2	PRE	A				
	fb Dimension	40	WP	0.38	LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5	LB/1000 FT2	8	WAIT B				
2	Dimension	40	WP	0.5	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	+ Blank fertilizer	40	G	4.6	LB/1000 FT2	PRE	A				
	fb Dimension	40	WP	0.25	LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5	LB/1000 FT2	8	WAIT B				
3	Dimension (on fert)	0.25	G	0.38	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	+ Blank fertilizer	40	G	1.1	LB/1000 FT2	PRE	A				
	fb Dimension (on fert)	0.25	G	0.38	LB A/A	8	WAIT B				
4	Dimension (on fert)	0.25	G	0.5	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	fb Dimension (on fert)	0.25	G	0.25	LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	1.1	LB/1000 FT2	8	WAIT B				
5	Dimension	2	SC	0.38	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	+ Blank fertilizer	40	G	4.6	LB/1000 FT2	PRE	A				
	fb Dimension	2	SC	0.38	LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5	LB/1000 FT2	8	WAIT B				
6	Dimension	2	SC	0.5	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	+ blank fertilizer	40	G	4.6	LB/1000 FT2	PRE	A				
	fb Dimension	2	SC	0.25	LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5	LB/1000 FT2	8	WAIT B				
7	Barricade	65	WG	1.0	LB A/A	PRE	A	90 a	90 a	90 a	90 a
	+ Blank fertilizer	40	G	4.6	LB/1000 FT2	PRE	A				
	fb Blank fertilizer	40	G	3.5	LB/1000 FT2	8	WAIT B				
8	Untreated						A	0 b	0 b	0 b	0 b
	+ Blank fertilizer	40	G	4.6	LB/1000 FT2	PRE	A				
	fb Blank fertilizer	40	G	3.5	LB/1000 FT2	8	WAIT A				
	LSD (P=.05)							0.0	0.0	0.0	0.0
	Standard Deviation							0.0	0.0	0.0	0.0
	CV							0.0	0.0	0.0	0.0
	Bartlett's X2							0.0	0.0	0.0	0.0
	P(Bartlett's X2)							0.00*	0.00*	0.00*	0.00*
	Replicate F							0.000	0.000	0.000	0.000
	Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000
	Treatment F							0.000	0.000	0.000	0.000
	Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000

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

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Weed Code	DIGSP			
Crop Code	Control	CYNDA	CYNDA	CYNDA
Rating Data Type	Percent	Density	Density	Density
Rating Unit	Aug-15-02	Apr-17-02	May-15-02	Jun-13-02
Rating Date	168 DA-A	48 DA-A	76 DA-A	105 DA-A
Trt-Eval Interval	L05	L05	L05	L05
PRM Data Type	0	0	0	0
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate Rate Unit	Grow Stg	Appl Code				
1	Dimension	40	WP	0.38 LB A/A	PRE	A	90 a	50 a	85 ab	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A				
	fb Dimension	40	WP	0.38 LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8	WAIT B				
2	Dimension	40	WP	0.5 LB A/A	PRE	A	90 a	43 ab	88 a	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A				
	fb Dimension	40	WP	0.25 LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8	WAIT B				
3	Dimension (on fert)	0.25	G	0.38 LB A/A	PRE	A	90 a	43 ab	88 a	90 a
	+ Blank fertilizer	40	G	1.1 LB/1000 FT2	PRE	A				
	fb Dimension (on fert)	0.25	G	0.38 LB A/A	8	WAIT B				
4	Dimension (on fert)	0.25	G	0.5 LB A/A	PRE	A	90 a	30 b	78 b	88 a
	fb Dimension (on fert)	0.25	G	0.25 LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	1.1 LB/1000 FT2	8	WAIT B				
5	Dimension	2	SC	0.38 LB A/A	PRE	A	90 a	50 a	85 ab	88 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A				
	fb Dimension	2	SC	0.38 LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8	WAIT B				
6	Dimension	2	SC	0.5 LB A/A	PRE	A	90 a	40 ab	85 ab	90 a
	+ blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A				
	fb Dimension	2	SC	0.25 LB A/A	8	WAIT B				
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8	WAIT B				
7	Barricade	65	WG	1.0 LB A/A	PRE	A	90 a	50 a	83 ab	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A				
	fb Blank fertilizer	40	G	3.5 LB/1000 FT2	8	WAIT B				
8	Untreated					A	0 b	55 a	88 a	75 b
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A				
	fb Blank fertilizer	40	G	3.5 LB/1000 FT2	8	WAIT A				
	LSD (P=.05)						0.0	16.1	8.7	4.8
	Standard Deviation						0.0	11.0	5.9	3.3
	CV						0.0	24.37	7.01	3.74
	Bartlett's X2						0.0	10.113	3.255	0.082
	P(Bartlett's X2)						0.00*	0.072	0.86	0.96
	Replicate F						0.000	6.446	3.160	0.778
	Replicate Prob(F)						1.0000	0.0029	0.0460	0.5195
	Treatment F						0.000	2.079	1.304	10.000
	Treatment Prob(F)						1.0000	0.0919	0.2966	0.0001

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

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

CYNDA
 Density
 Percent
 Jul-22-02
 144 DA-A
 L05
 0

Trt No.	Treatment Name	Form Amt	Fm Ds	Rate Rate Unit	Grow Stg	Appl Code	
1	Dimension	40	WP	0.38 LB A/A	PRE	A	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A	
	fb Dimension	40	WP	0.38 LB A/A	8 WAIT	B	
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8 WAIT	B	
2	Dimension	40	WP	0.5 LB A/A	PRE	A	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A	
	fb Dimension	40	WP	0.25 LB A/A	8 WAIT	B	
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8 WAIT	B	
3	Dimension (on fert)	0.25	G	0.38 LB A/A	PRE	A	90 a
	+ Blank fertilizer	40	G	1.1 LB/1000 FT2	PRE	A	
	fb Dimension (on fert)	0.25	G	0.38 LB A/A	8 WAIT	B	
4	Dimension (on fert)	0.25	G	0.5 LB A/A	PRE	A	90 a
	fb Dimension (on fert)	0.25	G	0.25 LB A/A	8 WAIT	B	
	+ Blank fertilizer	40	G	1.1 LB/1000 FT2	8 WAIT	B	
5	Dimension	2	SC	0.38 LB A/A	PRE	A	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A	
	fb Dimension	2	SC	0.38 LB A/A	8 WAIT	B	
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8 WAIT	B	
6	Dimension	2	SC	0.5 LB A/A	PRE	A	90 a
	+ blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A	
	fb Dimension	2	SC	0.25 LB A/A	8 WAIT	B	
	+ Blank fertilizer	40	G	3.5 LB/1000 FT2	8 WAIT	B	
7	Barricade	65	WG	1.0 LB A/A	PRE	A	90 a
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A	
	fb Blank fertilizer	40	G	3.5 LB/1000 FT2	8 WAIT	B	
8	Untreated					A	68 b
	+ Blank fertilizer	40	G	4.6 LB/1000 FT2	PRE	A	
	fb Blank fertilizer	40	G	3.5 LB/1000 FT2	8 WAIT	A	
	LSD (P=.05)						5.0
	Standard Deviation						3.4
	CV						3.88
	Bartlett's X2						0.0
	P(Bartlett's X2)						0.00*
	Replicate F						1.000
	Replicate Prob(F)						0.4123
	Treatment F						22.091
	Treatment Prob(F)						0.0001

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