

Dollar Spot Volume Study (Fairway)

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INTRODUCTION

To evaluate the effects of carrier volume on the length of efficacy of 9 commonly used dollar spot control products.

EXPERIMENTAL METHODS

Individual plots, 3 ft x 10 ft, were arranged in a randomized split block design with four replications. The experimental area was inoculated 7 days after treatment. Treatments were applied with a CO₂-powered boom sprayer, using XR Teejet 8003 VS, XR Teejet 8005 VS, and XR Teejet 8008 VS nozzles, at 30 psi, in water equivalent to 1 gal, 2 gal, and 4 gal per 1000 sq ft respectively. Applications were applied on June 21, 2000. The plot was inoculated on July 13, 2000. The experimental area receive a total of 1.5 lbs of Nitrogen (Urea 46-0-0) from two applications (1/2 lb on May 25 and 1 lb on July 28). Data was collected on 19, 25, 38, 55, and 62 DAT. Data obtained was subjected to analysis of variance and LSD was used to determine significant differences between treatment means.

DISCUSSION

Most products performed well until the 55 DAT treatment. The only product that failed earlier, and was not expected to last that long, was Daconil Ultrex. Based on the results from the carrier volume it was determined that there is no statistical difference among the spray volumes used in this trial. These findings are similar to the results that were obtained in a carrier volume study on greens height bentgrass the previous two years. This is only the first year of the study and it must be repeated to validate the results.

Table 1. Percent Dollar Spot Damage

#	Treatment	Form Amt	Rate	Rate Unit	%Damage 19 DAT	%Damage 25 DAT	%damage 38 DAT	%Damage 55 DAT	%Damage 62 DAT
1	Daconil Ultrex 1 Gallon	82.5 WG	3.7 OZ/1000 FT2		2.5 c	0 c	21.3 b	46.3 bc	52.5 ab
2	Daconil Ultrex 2 Gallons	82.5 WG	3.7 OZ/1000 FT2		1.3 cd	0 c	27.5 ab	55 ab	60 a
3	Daconil Ultrex 4 Gallons	82.5 WG	3.7 OZ/1000 FT2		0 d	0 c	21.3 b	42.5 cd	51.3 abc
4	Chipco 26 GT 1 Gallon	2 SC	4 FL OZ/1000 FT2		0 d	0 c	5 cde	23.8 e	31.3 def
5	Chipco 26 GT 2 Gallons	2 SC	4 FL OZ/1000 FT2		0 d	0 c	2.5 cde	21.3 ef	23.8 f-i
6	Chipco 26 GT 4 Gallons	2 SC	4 FL OZ/1000 FT2		0 d	0 c	5 cde	22.5 e	27.5 efg
7	Cleary's 3336 1 Gallon	50 WP	2 OZ/1000 FT2		0 d	0 c	2.5 cde	12.5 f-i	18.8 g-k
8	Cleary's 3336 2 Gallons	50 WP	2 OZ/1000 FT2		0 d	0 c	3.8 cde	17.5 e-h	22.5 f-j
9	Cleary's 3336 4 Gallons	50 WP	2 OZ/1000 FT2		0 d	0 c	3.8 cde	21.3 ef	23.8 f-i
10	Eagle 1 Gallon	40 WP	1.2 OZ/1000 FT2		0 d	0 c	0 e	7.5 i	11.3 jkl
11	Eagle 2 Gallons	40 WP	1.2 OZ/1000 FT2		0 d	0 c	0 e	5 i	6.3 l
12	Eagle 4 Gallons	40 WP	1.2 OZ/1000 FT2		0 d	0 c	0 e	5 i	6.3 l
13	Sentinel 1 Gallon	40 WG	0.33 OZ/1000 FT2		0 d	0 c	0 e	5 i	6.3 l
14	Sentinel 2 Gallons	40 WG	0.33 OZ/1000 FT2		0 d	0 c	0 e	5 i	6.3 l
15	Sentinel 4 Gallons	40 WG	0.33 OZ/1000 FT2		0 d	0 c	0 e	7.5 i	8.8 kl
16	Banner Maxx 1 Gallon	1.24 EC	2 FL OZ/1000 FT2		0 d	0 c	1.3 de	10 hi	10 kl
17	Banner Maxx 2 Gallons	1.24 EC	2 FL OZ/1000 FT2		0 d	0 c	2.5 cde	11.3 ghi	16.3 g-l
18	Banner Maxx 4 Gallons	1.24 EC	2 FL OZ/1000 FT2		0 d	0 c	0 e	10 hi	12.5 i-l
19	Rubigan 1 Gallon	1 SC	1.5 FL OZ/1000 FT2		0 d	0 c	8.8 c	23.8 e	32.5 def
20	Rubigan 2 Gallons	1 SC	1.5 FL OZ/1000 FT2		0 d	0 c	8.8 c	25 e	31.3 def
21	Rubigan 4 Gallons	1 SC	1.5 FL OZ/1000 FT2		0 d	0 c	5 cde	20 efg	25 e-h
22	Bayleton 1 Gallon	25 WG	1 OZ/1000 FT2		0 d	0 c	0 e	10 hi	13.8 h-l
23	Bayleton 2 Gallons	25 WG	1 OZ/1000 FT2		0 d	0 c	0 e	11.3 ghi	16.3 g-l
24	Bayleton 4 Gallons	25 WG	1 OZ/1000 FT2		0 d	0 c	0 e	10 hi	13.8 h-l
25	Vorlan 1 Gallon	50 WG	1 OZ/1000 FT2		0 d	0 c	7.5 cd	35 d	36.3 de
26	Vorlan 2 Gallons	50 WG	1 OZ/1000 FT2		0 d	0 c	7.5 cd	37.5 cd	41.3 bcd
27	Vorlan 4 Gallons	50 WG	1 OZ/1000 FT2		0 d	0 c	8.8 c	36.3 d	40 cd
28	Check 1 Gallon				17.5 b	16.3 b	26.3 ab	53.8 ab	56.3 a
29	Check 2 Gallons				17.5 b	18.8 ab	32.5 a	55 ab	58.8 a
30	Check 4 Gallons				22.5 a	21.3 a	32.5 a	57.5 a	60 a

LSD (P=.05)

2.45

3.62

6.59

9.91

11.9

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