4. Benzimidazole resistant dollar spot study

The benzimidazole resistant dollar spot study was conducted on the M.S.U. Soil Farm. The treatments in study number 1 were applied on 7/8, 7/23, 8/7, 8/19 and 9/4. The treatments in Study 2 were applied on 8/7 and 8/19. All treatments were applied with a hand held CO_2 sprayer.

Study 1

The results show none of the fungicides were effective in controlling the benzimidazole resistant strain of dollar spot Table 3.

Study 2

The study was read on 8/26. Table 4 shows Daconil 2787, 6 oz., R. P. 26019 2 oz., Calo Clor 2 oz., R. P. 26019 1 oz., Actidione - Thiram 4 oz., Calo Clor 3 oz., Actidione RZ 2 oz., and Dyrene 6 oz. ranked at the top of those giving significant control over the benzimidazole resistant strain of dollar spot. Calo Clor and Acti-dione RZ were phytotoxic. It is obvious for complete control shorter treatment intervals will be required.

Table 3. Control of benzimidazole resistant Sclerotinia dollar spot.

		Ave. Number of spots/plot				
Treatment ¹	Rate	I (8/26)	II (9.9)	III (9/15)		
MF 598	3 oz.	400*	400*	400*		
MF 598	4 oz.	н	п	н		
MF 598	6 oz.	U.	п	11		
Dithane M=45	2.25 oz.	н		н		
Dithane M-45	3 oz.	п	u	п		
Dithane M-45	4.5 oz.		u	п		
Fungo 50	.9 oz.	н		н		
Fungo 50	1.2 oz.	п		ш		
Fungo 50	1.8 oz.	п		ш		
Check		н		н		

* Estimation - spots too numerous to count.
1 Treatment dates are 7/8, 7/23, 8/23, 8/19.

	. /	Nu	mber of spo	ts		
Treatment	rate/ 1000 sq.ft.	I	II	III	Avera	je ¹
Daconil 2787	6 oz.	6	3	12	7.0 a	3
R.P. 26019	2 oz.	0	0	23	7.7 :	a
Calo-Clor ^a	2 oz.	17	20	23	20.0	a b
R. P. 26019	1 oz.	17	45	11	24.3	аЬ
Actidione-Thiram	4 oz.	25	25	25	25.0 8	a b
Calo-Clor ^a	3 oz.	28	35	21	28.0 8	а b
Actidione-RZ ^a	2 oz.	37	35	29	33.7 8	a b
Dyrene	6 oz.	60	32	85	59.0	a b
Actidione-Thiram	2 oz.	125	73	40	79.3	bc
Daconil 2787	3 oz.	65	70	106	80.3	bc
Actidione-RZ ^a	1 oz.	115	103	153	123.7	c d
Dyrene	3 oz.	200	150	92	147.3	d
Tersan 75	3 oz.	75	263	213	183.7	е
Tersan 1991	1 oz.	400*	400*	400*	400*	f
Cleary's 3224	2 oz.	400*	400*	400*	400*	f
Check		400*	400*	400*	400*	f

Table 4. Control of benzimidazole resistant Sclerotinia dollar spot.

¹ Treatment followed by the same letter are not significantly different from each other at the 5% level.

* Estimation - spots too numerous to count.

^aPhytotoxic to the turf.