

6. Fusarium Blight Study

The 1975 Fusarium blight studies were conducted at the Pebble Creek Apartments in Farmington, Michigan and at the Michigan State University Crop and Soil Science field laboratories on Merion Kentucky bluegrass. The plots at Pebble Creek were 5 x 10 feet whereas those at M.S.U. were 5' x 6'. Both sets of plots were replicated in a random block design. The liquid application was made with an Ortho hose jar applicator and the dry granular applications were made with a 3 foot Scotts drop spreader. All treatments were immediately drenched in after application.

Pebble Creek

The treatments at Pebble Creek were applied on July 2, 16 and August 22. The readings were taken on Sept. 23. The results in Table 7 show that Cleary's 3224, Tersan 1991 8 oz. with and without wetting agent, Aqua Grow 8 oz., R.P. 26019 ranked at the top of the treatments. The study was conducted on a heavy clay soil and the wetting agents apparently helped with the penetration of the fungicide and/or water into the soil.

M.S.U. Soils Field Laboratory

The treatments were applied on August 28 and September 11 and the readings were taken on Oct. 15. The results in Table 8 shows Tersan 1991 8 oz, Tersan 1991 8 oz plus Hydro-wet; Tersan 1991 8 oz plus Aqua-Gro gave significant control of Fusarium blight compared to the untreated check.

Table 7. PEBBLE CREEK Fusarium blight study.
% area infected

Chemical	Rate	I	II	III	T	AV
Cleary's 3224	8 oz	2	10	0	12	4.0
Tersan 1991 & Aqua-Gro	8 oz	2	2	30	34	11.3
Tersan 1991 & Hydro-Wet	4 oz	0	20	30	50	16.7
Aqua-Gro	8 oz	10	10	30	50	16.7
Tersan 1991 & Hydro-Wet	4 oz	2	30	20	52	17.3
R.P. 26019	8 oz	10	15	30	55	18.3
Tersan 1991	8 oz	40	10	10	60	20.0
Tersan 1991 & Aqua-Gro	4 oz	30	30	5	65	21.7
Tersan 1991	4 oz	40	20	10	70	23.3
Form-A-Turf	8 oz	20	30	20	70	23.3
R.P. 26019	4 oz	50	10	25	85	28.3
Form-A-Turf	4 oz	60	5	20	85	28.3
EL 222	4 oz	70	5	25	100	33.3
EL 222	8 oz	15	60	30	105	35.0
Hydro-Wet	8 oz	50	10	50	110	36.7
Check		60	20	40	120	40.0

TABLE 8

FUSARIUM BLIGHT STUDY SOILS FARM

Treatment	Rate/ 1000 ft ²	Percent infected area										
		I	II	III	Average ¹							
Tersan 1991	8 oz	2	2	10	4.7	a						
Scotts F 6970	1x	10	5	5	6.7	a	b					
Tersan 1991 & Hydro-Wet	8 oz	15	2	20	12.3	a	b	c				
Tersan 1991 & Aqua-Gro	8 oz	20	15	2	12.3	a	b	c				
Vydate	4.5 lb	2	30	20	17.3	a	b	c	d			
Dasanit	3 lb	20	5	40	21.7	a	b	c	d	e		
Tersan 1991 & Aqua-Gro	4 oz	20	4	50	24.7	a	b	c	d	e	f	
Tersan 1991 & Hydro-Wet	4 oz	20	50	10	26.7	a	b	c	d	e	f	
Nemacur	3 lb	40	30	30	33.3	a	b	c	d	e	f	
Mocap ²	3 lb	10	60	30	33.3	a	b	c	d	e	f	
Cleary's 3224	8 oz	20	60	30	36.7	a	b	c	d	e	f	
Hydro Wet	8 oz	15	40	60	38.3	a	b	c	d	e	f	
R.P. 26019	4 oz	70	20	30	40.0	a	b	c	d	e	f	
R.P. 26019	8 oz	70	10	40	40.0	a	b	c	d	e	f	g
Tersan 1991	4 oz	25	60	40	41.7	a	b	c	d	e	f	g
Aqua-Gro	8 oz	25	40	60	41.7	a	b	c	d	e	f	g
Ciba-Geigy GA-4-737	3.5 lb	40	40	50	43.3		b	c	d	e	f	g
Form-A-Turf	4 oz	70	50	20	46.7			c	d	e	f	g
CHECK		60	30	70	53.3				d	e	f	g
Form-A-Turf	8 oz	60	70	40	56.7				d	e	f	g
EL 222 ²	8 oz	80	30	60	56.7					e	f	g
Ciba-Geigy GA-4-737	7 lbs	60	80	40	60.0						f	g
EL 222 ²	4 oz	90	70	70	76.7							g

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