

Helminthosporium Melting out

The 1977 *Helminthosporium vagans* (melting-out) fungicide trials were conducted at the Michigan State University soils farm on Park Kentucky bluegrass turf maintained at 1 1/2" height of cut. Fungicide treatments were applied bi-weekly on April 29, May 10, May 24 and June 7. A 6 oz/1000 ft² rate of Cleary's flowable thiram treatment was applied weekly. All liquid fungicides were applied with a CO₂ small plot sprayer. The dry formulation fungicides were applied with a Scotts drop type spreader. The plots were 3' X 6' and the treatments were replicated three times in a random block design. The plot was rated on July 7.

Table 5. Helminthosporium Melting out Fungicide Trials - 1977

| Treatment | Rate/1000 ft ² | Disease Rating (1-best, 9-worst) | | | | |
|---------------------------------------|---------------------------|----------------------------------|----|-----|-----|--------|
| | | I | II | III | AVE | (DMR) |
| Tersan 1991 + DPX 4424 | 2 oz + 2 oz | 2 | 1 | 1 | 1.3 | a |
| Tersan 1991 + RP 26019 | 1 oz + 2 oz | 1 | 2 | 1 | 1.3 | a |
| Daconil 2787 | 6 oz | 3 | 2 | 1 | 2 | ab |
| Dyrene | 6 oz | 2 | 1 | 3 | 1 | ab |
| GA-1-105 | 2.5 gm (ai) | 2 | 2 | 2 | 2 | ab |
| Daconil 2787 | 4 oz | 2 | 2 | 2 | 2.3 | abc |
| RP 26019 | 1 oz | 2 | 2 | 3 | 2.3 | abc |
| F-8272 | 2 oz (ai) | 2 | 2 | 3 | 2.3 | abc |
| Tersan 1991 + Daconil 2787 | 1 oz + 6 oz | 3 | 2 | 2 | 2.3 | abc |
| Tersan 1991 + Dyrene | 1 oz + 6 oz | 1 | 2 | 4 | 2.3 | abc |
| Tersan 1991 + Tersan 75 | 1 oz + 6 oz | 1 | 3 | 3 | 2.3 | abc |
| GA-1-105 | 5 gm (ai) | 2 | 3 | 3 | 2.7 | abcd |
| RP 26019 | 2 oz | 2 | 3 | 3 | 2.7 | abcd |
| F-8197 | 1 oz (ai) | 2 | 3 | 3 | 2.7 | abcd |
| F-8197 | 2 oz (ai) | 2 | 4 | 2 | 2.7 | abcd |
| F-8272 | 1 oz (ai) | 2 | 2 | 4 | 2.7 | abcd |
| BFN 7544 | 1 oz (fl) | 5 | 2 | 2 | 3 | abcde |
| BFN 7711 | 1 oz | 3 | 2 | 4 | 3 | abcde |
| BFN 7711 | 2 oz | 2 | 4 | 3 | 3 | abcde |
| BFN 7711 | 4 oz | 2 | 3 | 4 | 3 | abcde |
| Cleary's Spectro | 4 oz | 3 | 3 | 3 | 3 | abcde |
| Acti-dione RZ | .55 oz | 6 | 2 | 3 | 3.7 | bcdef |
| Cleary's Thiram (flo) weekly | 6 oz | 3 | 5 | 3 | 3.7 | bcdef |
| Acti-dione TGF + Acti-dione RZ | .34 oz + .55 oz | 4 | 3 | 5 | 4 | bcdefg |
| Acti-dione TGF + RZ + Ferrous Sulfate | .34 oz + .55 oz + 2 oz | 5 | 3 | 4 | 4 | bcdefg |
| Cleary's Thiram (flo) | 6 oz | 6 | 4 | 2 | 4 | bcdefg |
| Acti-dione TGF | .34 oz | 4 | 5 | 4 | 4.3 | cdefg |
| BFN 7544 | 2 oz (fl) | 5 | 3 | 5 | 4.3 | cdefg |
| BFN 7544 | 4 oz (fl) | 5 | 4 | 4 | 4.3 | cdefg |

Table 6. Fusarium Blight Study - 1977.

| Treatment | Rate/1000 ft ² | Turf Disease Rating (1-best; 9-worst) | | | | |
|------------------------------------|---------------------------|---------------------------------------|----|-----|------|-------|
| | | I | II | III | AVE | (DMR) |
| Vydate (liquid) | 12 oz | 2 | 1 | 2 | 1.67 | a |
| BFN 7544 | 20 oz (f1) | 2 | 2 | 2 | 2 | ab |
| BFN 7544 | 10 oz (f1) | 2 | 2 | 3 | 2.33 | abc |
| Vydate + Daconil 2787 | 3 oz + 6 oz | 2 | 2 | 3 | 2.33 | abc |
| Aqua-Gro | 4 oz | 2 | 2 | 3 | 2.33 | abc |
| Aqua-Gro | 8 oz | 3 | 2 | 2 | 2.33 | abc |
| Amway Spray Adjuvant + Tersan 1991 | 8 oz + 8 oz | 2 | 2 | 3 | 2.33 | abc |
| RP 26019 | 4 oz | 3 | 2 | 2 | 2.33 | abc |
| Amway Spray Adjuvant + Tersan 1991 | 4 oz + 4 oz | 2 | 3 | 3 | 2.67 | abcd |
| Wex | 2 oz | 2 | 3 | 3 | 2.67 | abcd |
| Wex | 4 oz | 2 | 4 | 2 | 2.67 | abcd |
| Wex | 8 oz | 2 | 2 | 4 | 2.67 | abcd |
| Vydate (liquid) | 6 oz | 4 | 2 | 2 | 2.67 | abcd |
| Nemacur | 3 lbs. | 4 | 2 | 2 | 2.67 | abcd |
| BFN 7544 | 5 oz (f1) | 2 | 4 | 2 | 2.67 | abcd |
| GA-1-105 | 5 oz | 4 | 2 | 2 | 2.67 | abcd |
| Lesco 2887 | 8 oz | 2 | 4 | 3 | 3 | abcde |
| Vydate + Tersan 1991 | 3 oz + 4 oz | 3 | 2 | 4 | 3 | abcde |
| Vydate + Tersan 75 | 3 oz + 2 oz | 3 | 2 | 4 | 3 | abcde |
| Aqua-Gro + Gersan 1991 | 8 oz + 4 oz | 3 | 3 | 3 | 3 | abcde |
| Wex + Tersan 1991 | 8 oz + 8 oz | 3 | 2 | 4 | 3 | abcde |
| Amway Spray Adjuvant + Tersan 1991 | 4 oz + 8 oz | 4 | 2 | 3 | 3 | abcde |
| Amway Spray Adjuvant + Tersan 1991 | 8 oz + 4 oz | 2 | 3 | 4 | 3 | abcde |
| Dasanit | 3 lbs. | 6 | 2 | 2 | 3.33 | abcde |
| Aqua-Gro + Tersan 1991 | 8 oz + 8 oz | 3 | 2 | 5 | 3.33 | abcde |
| Wex + Tersan 1991 | 2 oz + 4 oz | 5 | 2 | 3 | 3.33 | abcde |
| Wex + Tersan 1991 | 2 oz + 8 oz | 4 | 3 | 3 | 3.33 | abcde |
| RP 26019 | 8 oz | 4 | 3 | 3 | 3.33 | abcde |
| Check | - | 4 | 2 | 4 | 3.33 | abcde |
| Aqua-Gro + Tersan 1991 | 4 oz + 8 oz | 5 | 2 | 4 | 3.67 | abcde |
| Wex + Tersan 1991 | 8 oz + 4 oz | 6 | 2 | 3 | 3.67 | abcde |
| Fungo 50 | 8 oz | 6 | 3 | 2 | 3.67 | abcde |
| UC 21865 | 10 lbs. | 4 | 4 | 4 | 4 | abcde |
| Aqua-Gro + Tersan 1991 | 4 oz + 4 oz | 4 | 2 | 6 | 4 | abcde |
| Tersan 1991 | 8 oz | 4 | 6 | 2 | 4 | abcde |
| Wex + Tersan 1991 | 4 oz + 4 oz | 6 | 3 | 4 | 4.33 | abcde |
| Wex + Tersan 1991 | 4 oz + 8 oz | 7 | 4 | 2 | 4.33 | abcde |
| EL 222 | 6 oz | 5 | 2 | 6 | 4.33 | abcde |
| GA-1-105 | 10 oz | 5 | 4 | 4 | 4.33 | abcde |
| UC 21865 | 5 lbs. | 6 | 3 | 4 | 4.33 | abcde |
| Lesco 1644 | 8 oz | 8 | 3 | 3 | 4.67 | bcde |
| Fungo 50 | 4 oz | 7 | 2 | 5 | 4.67 | bcde |
| Vydate (liquid) | 3 oz | 7 | 5 | 2 | 4.67 | bcde |

Table 6 (Continued)

| | | | | | | |
|----------------------|------|---|---|---|------|------|
| Amway Spray Adjuvant | 4 oz | 4 | 6 | 4 | 4.67 | bcde |
| Tersan 1991 | 4 oz | 5 | 5 | 4 | 4.67 | bcde |
| Amway Spray Adjuvant | 8 oz | 6 | 4 | 5 | 5 | cde |
| Cleary 3336 | 8 oz | 8 | 3 | 4 | 5 | cde |
| EL 222 | 3 oz | 2 | 8 | 6 | 5.33 | de |
| Lesco 2833 | 8 oz | 9 | 6 | 2 | 5.67 | e |
| Cleary 3336 | 4 oz | 9 | 4 | 4 | 5.67 | e |

Results

The Fusarium blight occurred in Michigan this season during May when we experienced unseasonably warm weather. The disease did not appear again even though hot dry weather occurred in both July and August. As a result, no treatment was significantly better than the untreated control.

This study was conducted on a heavy clay soil. In addition, high nematode populations were also present. Those plots which recovered the best from the early Fusarium blight infections were the ones treated with a nematicide or wetting agent, either alone, or in combination with a fungicide. The exceptions were BFN 7544, RP 26019 and GA-1-105, which by themselves, had a rating of less than 3.

Anthracnose - Fungicide Study 1977

Introduction

The 1977 anthracnose (*Collectotrichum graminicola*) fungicide study was conducted at the Dearborn Country Club in Dearborn, Michigan on an irrigated annual bluegrass fairway mowed at a 1/2" height of cut.

The liquid treatments were applied with a small plot CO₂ sprayer at a rate of 40 gallons/A. The granular formulations were applied with a 3' Scotts drop-type spreader. The plots were 6 ft X 9 ft and were replicated three times in a random block design.

The fungicide applications were made on July 26 and August 16, with the reading being taken on September 12.