

Pathological Pointers Snow Mold 1981-82

By Ward C. Stienstra, Professor and Extension Plant Pathologist, University of Minnesota

Test plots for snow mold management were applied at International Falls, October 15, Duluth, October 20, Detroit Lakes, October 27, Rochester, October 30, and Hopkins, November 2. One additional plot was planned for Roseau; however, travel plans were disrupted and weather prevented a second trip. Late treatments were also expected at Hopkins but early snow which remained prevented those late applications. However, all was not lost even if on May 17 the test plot at Detroit Lakes had no evidence of disease and was nicely recovered from any chemical burn.

A fairway study at Oak Ridge included nine treatments, several which were to be applied the day winter arrived. Since no late applications were applied the question of time of application still remains but on April 1, clear differences were observed. Untreated checks averaged 74.2% disease while PCNB 4 oz/1000 sq. ft. was 4% disease. PMA at 1 + 2 Fl oz. averaged 6.75 + 3.25% disease. Thiram 4 oz. averaged 48.75 while Thiram 4 oz. plus PCNB 4 oz. was the best plot - colorwise, averaging 2% disease. PMA 1 Fl oz plus Thiram 4 oz plus PCNB 4 oz had no disease in any of the four replicates. The first chemical fairway test with moderate disease pressure may point the way to better fairway winter disease management.

On April 13, 31 treatments at Mendota Heights were observed, untreated Checks averaged a low 19% disease. Most treatments, even low rates provided adequate disease control. Notable exceptions were 26019, Daconil 8 oz plus 1991 2 oz, and PMA 1 F1 oz. The granules Turfcide 5 lbs and two OM Scott experimentals also were poor performaners.

Twenty-seven treatments at Rochester were observed April 17. Untreated Checks averaged only 12% disease and Tersan SP 5 oz, 1991 2 oz, Daconil 16F1 oz, 26019 2 oz, PMA 1 F1 oz, and Turfcide 5# were judged as failures.

The plot at International Falls while not large was beautiful, only granules were applied, untreated Checks were 100% diseased. The best single treatment was Calogran 10# - 5% disease while Calogran 10# plus Fungicide II DR and Fungicide II DR plus Turfcide 10# had about 1% disease. Calogran 10# plus Turfcide 10# and the 3 way combo were disease free. The half of the plot fertilized with 1# N in a 20:10:10 product was somewhat better. The color difference is expected to increase with time as the snow had just left the plot three days before.

Thirty-seven plots plus 17 Checks at Duluth were observed April 28. There were no surprises, only confirmation of what I expected. Untreated Checks averaged 78.5% disease. Bayleton looked quite good but one year does not make a recommendation.

Field observations in the metro area revealed few serious disease problems when turf was treated. While many homeowners reported much grey snow mold damage, it was not severe but mostly foliar blight and little real crown damage, i.e. fairly quick recovery. One surprise was the rather common pink snow mold damaged that developed around the <u>Typhula</u> damage areas in early May. Another very interesting observation at Gilbert, Minnesota was the small sizes of <u>T</u>. ishikariensis damage on bent when compared to Poa, indeed the diseased area on Poa was at least twice as large even when treated. Poa was clearly more susceptible in the turf nursery.

| | 1981 - 1983 | 2 | | |
|------------------------|---------------------|----------|--------------------|---------|
| | 1001 100. | | LOCATION/PERCENT I | DISEASE |
| PRODUCT | RATE OZ/1000 SQ.FT. | SOMERSET | ROCHESTER | DULUTH |
| | | | | |
| Caloclor | 3 | 0.75 | 0 | 13.75 |
| Caloclor | 5 | 0.25 | 0 | 2 |
| Tersan SP | 5 | 3.75 | 6.25 | 24.5 |
| Tersan SP | 9 | 1.25 | 0 | 9.25 |
| Terraclor | 8 | 0.25 | 0 | 16.75 |
| Terraclor | 16 | 0 | 0 | 2.75 |
| Tersan 1991 | 2 | 3.75 | 6.25 | 32.5 |
| Bayleton 25WP | 5 | 0.5 | 0.25 | 6.75 |
| Bayleton | 1 | 0.25 | 0 | 5 |
| Ciba Geigy 64250 | 8 gms ai | 0.75 | 0 | |
| Ciba Geigy 64250 | 16 gms ai | 0 | 0 | |
| Daconil 4F | 8 F1 oz | 1.5 | 2 | 35 |
| Daconil 4F | 16 F1 oz | 2.5 | 3.75 | 15 |
| 26019 | 2 | 8.75 | 4.25 | 18.75 |
| 26019 | 4 | 6 | 0,5 | 10.25 |
| Caloclor+Tersan SP | 3 + 5 | 0.75 | 0 | 2.5 |
| Caloclor+Terraclor | 3 + 8 | 0 | 0 | 0 |
| Tersan SP+Terraclor | 5 + 8 | 0 | 0 | 4 |
| Caloclor+Tersan SP+ | | | | 1.00 |
| Terraclor | 3 + 5 + 8 | 0 | 0 | 0 |
| Tersan SP+Tersan 1991 | 5 + 2 | 1.5 | 0.25 | 18.75 |
| Daconil 4F+Tersan 1991 | 8 F1 oz +2 | 3.25 | 2 | 15.75 |
| PMA | 1 F1. oz | 16 | 7.5 | 73.75 |
| PMA | 2 F1. oz | 7 | 1 | 72.5 |
| Untreated Check | | 19.0 | 12.0 | 78.5 |
| GRANULES | | | | |
| Calograp | 6 | 2 | 0 | 25 |
| Calogran Calogran | 10 | 1 | 0 | 12 |
| Fungicide II | N | 5 | 0.75 | 9 |
| Fungicide II | D | 5 | 0.75 | 7 |
| Turfcide | 5 | 12 | 4.25 | 22 |
| Turfcide 10% g | 10 | 12 | 4,20 | 11 |
| FFII | N | 1 | 0 | 3 |
| FFII | D | 1 | 0 | 1 |
| Scotts S-248 | В | 12 | | 25 |
| Scotts S-248 | | 12 | | 26 |
| F-9177 | | 12 | | 14 |
| F-9177 | | 12 | | 12 |
| F-IV | | 4 | | 12 |
| #31 plus #33 | | 7 | | 0 |
| #31 plus #35 | | | | 0 |
| #33 plus #35 | | | | 7 |
| #31 plus #33 plus #35 | | | | 0 |
| Fran Prus | | | | |

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