

# **1999-2000 Snow Mold Control Evaluation Gateway Golf Club (*Poa annua* Fairway)**

J. S. Gregos and G. Jung  
Department of Plant Pathology

## **INTRODUCTION**

To evaluate chemicals for the control of *Typhula* blight and pink snow mold.

## **EXPERIMENTAL METHODS**

This evaluation was conducted at Gateway Golf Club, Land O' Lakes, WI on annual bluegrass maintained under golf course fairway management conditions, at 0.75 inch cutting height. Individual plots, 3 ft x 10 ft, were arranged in a randomized complete block design with three replications. The experimental area was not inoculated; all disease development was of natural occurrence. Treatments were applied with a CO<sub>2</sub>-powered boom sprayer, using XR Teejet 8005 VS nozzles, at 30 psi, in water equivalent to 2 gal per 1000 sq ft. Granular applications were applied using a shaker jar. Early applications were made on October 9, 1999 and late applications on November 1, 1999. Percent snow mold damage was evaluated on March 25, and April 19, 2000. Data obtained was subjected to analysis of variance and LSD was used to determine significant differences between treatment means.

## **DISCUSSION**

This year was unusual in the fact that there was a significant amount of pink snow mold damage. The snow melt period was also shorter than years in the past, and probably did not provide favorable conditions for some of the snow molds to form extensively. This is most evident in the Prostar plots where there was a significant amount of damage, when normally it has very minor damage or none. Several treatments provided 100% control and all results are provided in table 1. PCNB at 12 ounces applied twice was one such treatment. The standard mix of Chipco 26 GT, Daconil WeatherStik and PCNB also did well. In general it is important to tank-mix several chemicals to achieve desired control in the Northern Region of Wisconsin.

Table 1. Snow Mold Damage Ratings (Gateway)

| Trt # | Treatment           | Form.  | Rate | Rate Unit                 | Apply Timing | % Infection<br>3-25-00 |     | % Damage<br>4-19-00 |     |
|-------|---------------------|--------|------|---------------------------|--------------|------------------------|-----|---------------------|-----|
| 1     | Compass             | 50WG   | 0.25 | Oz/1000ft <sup>2</sup>    | Late         | 3.3                    | IJ  | 1.7                 | G   |
|       | Banner Maxx         | 1.24MC | 2.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
|       | PCNB                | 75WP   | 4.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
| 2     | Medallion           | 50WG   | 0.30 | Oz/1000ft <sup>2</sup>    | Late         | 8.3                    | G-J | 10.0                | D-G |
|       | Banner Maxx         | 1.24MC | 2.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
|       | PCNB                | 75WP   | 4.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
| 3     | Compass             | 50WG   | 0.25 | Oz/1000ft <sup>2</sup>    | Late         | 6.7                    | HIJ | 8.3                 | D-G |
| 4     | Banner Maxx         | 1.24MC | 2.0  | FI Oz/1000ft <sup>2</sup> | Late         | 28.3                   | C-H | 25.0                | B-E |
| 5     | Medallion           | 50WG   | 0.30 | Oz/1000ft <sup>2</sup>    | Late         | 18.3                   | E-J | 13.3                | D-G |
| 6     | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Both         | 3.3                    | IJ  | 3.3                 | FG  |
|       | Chipco Triton       | 1.67SC | 1.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 7     | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Both         | 0.0                    | J   | 0.0                 | G   |
|       | Chipco Signature    | 80WG   | 4.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
|       | Turficide 400       | 4SC    | 8.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 8     | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Both         | 0.0                    | J   | 1.7                 | G   |
|       | Chipco Signature    | 80WG   | 4.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
|       | Daconil Ultrex      | 82.5WG | 5.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
| 9     | Chipco Triton       | 1.67SC | 1.0  | FI Oz/1000ft <sup>2</sup> | Both         | 6.7                    | HIJ | 6.7                 | EFG |
|       | Chipco Signature    | 80WG   | 4.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
|       | Daconil Ultrex      | 82.5WG | 5.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
| 10    | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Both         | 15.0                   | E-J | 8.3                 | D-G |
| 11    | Chipco Triton       | 1.67SC | 1.0  | FI Oz/1000ft <sup>2</sup> | Both         | 16.7                   | E-J | 16.7                | C-G |
| 12    | Chipco Signature    | 80WG   | 4.0  | Oz/1000ft <sup>2</sup>    | Both         | 46.7                   | ABC | 35.0                | ABC |
| 13    | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Late         | 6.7                    | HIJ | 10.0                | D-G |
|       | Chipco Triton       | 1.67SC | 1.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 14    | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Late         | 8.3                    | G-J | 11.7                | D-G |
|       | Chipco Signature    | 80WG   | 4.0  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
|       | Turficide 400       | 4SC    | 8.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 15    | Experimental        | 250SC  | 0.77 | FI Oz/1000ft <sup>2</sup> | Late         | 45.0                   | A-D | 28.3                | A-D |
| 16    | Experimental        | 250SC  | 0.77 | FI Oz/1000ft <sup>2</sup> | Both         | 60.0                   | A   | 46.7                | A   |
| 17    | Experimental        | 250SC  | 0.77 | FI Oz/1000ft <sup>2</sup> | Late         | 5.0                    | HIJ | 3.3                 | FG  |
|       | Turficide 400       | 4SC    | 12.0 | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 18    | Experimental        | 250SC  | 0.77 | FI Oz/1000ft <sup>2</sup> | Both         | 6.7                    | HIJ | 3.3                 | FG  |
|       | Turficide 400       | 4SC    | 12.0 | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 19    | Heritage            | 50WG   | 0.4  | Oz/1000ft <sup>2</sup>    | Both         | 15.0                   | E-J | 11.7                | D-G |
| 20    | Heritage            | 50WG   | 0.4  | Oz/1000ft <sup>2</sup>    | Both         | 5.0                    | HIJ | 1.7                 | G   |
|       | Turficide 400       | 4SC    | 12.0 | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 21    | PCNB                | 75WP   | 4.0  | Oz/1000ft <sup>2</sup>    | Late         | 11.7                   | G-J | 13.3                | D-G |
| 22    | Turficide 400       | 4SC    | 8.0  | FI Oz/1000ft <sup>2</sup> | Both         | 3.3                    | IJ  | 3.3                 | FG  |
| 23    | Turficide 400       | 4SC    | 12.0 | FI Oz/1000ft <sup>2</sup> | Both         | 0.0                    | J   | 0.0                 | G   |
| 24    | Heritage            | 50WG   | 0.4  | Oz/1000ft <sup>2</sup>    | Late         | 31.7                   | B-G | 23.3                | B-F |
| 25    | Daconil WeatherStik | 6F     | 5.5  | FI Oz/1000ft <sup>2</sup> | Late         | 21.7                   | D-J | 13.3                | D-G |
| 26    | Heritage            | 50WG   | 0.4  | Oz/1000ft <sup>2</sup>    | Late         | 21.7                   | D-J | 11.7                | D-G |
|       | Daconil WeatherStik | 6F     | 5.5  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 27    | Heritage            | 50WG   | 0.4  | Oz/1000ft <sup>2</sup>    | Late         | 11.7                   | G-J | 13.3                | D-G |
|       | Daconil WeatherStik | 6F     | 5.5  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
|       | PCNB                | 4SC    | 8.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 28    | Heritage            | 50WG   | 0.4  | Oz/1000ft <sup>2</sup>    | Late         | 13.3                   | F-J | 11.7                | D-G |
|       | Prostar             | 70WP   | 4.5  | Oz/1000ft <sup>2</sup>    |              |                        |     |                     |     |
| 29    | Prostar             | 70WP   | 4.5  | Oz/1000ft <sup>2</sup>    | Late         | 25.0                   | C-I | 18.3                | B-G |
| 30    | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Late         | 3.3                    | IJ  | 1.7                 | G   |
|       | Daconil WeatherStik | 6F     | 5.5  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
|       | PCNB                | 4SC    | 8.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 31    | Chipco 26GT         | 2SC    | 2.0  | FI Oz/1000ft <sup>2</sup> | Both         | 0.0                    | J   | 0.0                 | G   |
|       | Daconil WeatherStik | 6F     | 2.75 | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
|       | PCNB                | 4SC    | 4.0  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 32    | Chipco 26GT         | 2SC    | 4.0  | FI Oz/1000ft <sup>2</sup> | Late         | 18.3                   | E-J | 13.3                | D-G |
| 33    | Daconil WeatherStik | 6F     | 5.5  | FI Oz/1000ft <sup>2</sup> | Late         | 36.7                   | A-F | 35.0                | ABC |
| 34    | Turficide 400       | 4SC    | 8.0  | FI Oz/1000ft <sup>2</sup> | Late         | 15.0                   | E-J | 11.7                | D-G |
| 35    | Daconil Ultrex      | 82.5WG | 5.0  | Oz/1000ft <sup>2</sup>    | Both         | 11.7                   | G-J | 13.3                | D-G |
| 36    | Bayleton            | 50WG   | 2.0  | Oz/1000ft <sup>2</sup>    | Early        | 13.3                   | F-J | 13.3                | D-G |
| 37    | Prostar             | 70WP   | 4.5  | Oz/1000ft <sup>2</sup>    | Early        | 38.3                   | A-E | 35                  | ABC |
| 38    | Banner Maxx         | 1.24MC | 4.0  | FI Oz/1000ft <sup>2</sup> | Late         | 8.3                    | G-J | 8.3                 | D-G |
| 39    | Caloclor            | 90WP   | 3.0  | Oz/1000ft <sup>2</sup>    | Late         | 11.7                   | G-J | 11.7                | D-G |
| 40    | FF II 14-3-3        | 15.4G  | 104  | Oz/1000ft <sup>2</sup>    | Late         | 5.0                    | HIJ | 3.3                 | FG  |
| 41    | Engage              | 4SC    | 12.0 | FI Oz/1000ft <sup>2</sup> | Late         | 3.3                    | IJ  | 3.3                 | FG  |
| 42    | Turficide 400       | 4SC    | 12.0 | FI Oz/1000ft <sup>2</sup> | Late         | 5.0                    | HIJ | 3.3                 | FG  |
| 43    | Teraclor            | 75WP   | 8.0  | Oz/1000ft <sup>2</sup>    | Late         | 8.3                    | G-J | 5.0                 | EFG |
| 44    | 3336 F              | 4.5F   | 2.0  | FI Oz/1000ft <sup>2</sup> | Late         | 5.0                    | HIJ | 6.7                 | EFG |
|       | Daconil WeatherStik | 6F     | 5.5  | FI Oz/1000ft <sup>2</sup> |              |                        |     |                     |     |
| 45    | Untreated Control   |        |      |                           |              | 55.0                   | AB  | 38.3                | AB  |
|       | LSD                 |        |      |                           |              | 23.78                  |     | 20.25               |     |
|       | CV                  |        |      |                           |              | 95.9                   |     | 99.93               |     |

Means followed by the same letter do not significantly differ (P=0.05, LSD)

\* Quality rating scale: 0-9, 0 = dead, 9 = no damage and dark green, 4-5 acceptable.