



Fairy Ring suppressed by Combining DryJect with Profile™ Field & Fairway™

Fairy ring is a serious turfgrass disease caused by numerous fungi inhabiting the thatch and soil. There are three levels of symptoms associated with fairy ring known as Type I, II and III.

- Type I - is the most severe, indicated by dead turf.
- Type II is dark stimulated turf,
- Type III appears as a ring of mushrooms

Superintendents frequently make fungicide and/or surfactant applications in an attempt to mask and suppress the symptoms associated with fairy ring. These applications generally provide only short term suppression because the fungi have impacted the soil. Therefore, it is important to adequately address long term suppression of fairy ring symptoms by amending the growth media of the soil, turf and fungi.

What was done? Two separate fairways at Philadelphia Country Club were treated by injecting Profile Field & Fairway via DryJect in specific plot areas. Both fairways had historically high levels of Type I and II fairy ring symptoms. The first plot was injected in May, 2007, and was injected twice with Profile Field & Fairway. The second fairway was injected once with Profile Field & Fairway in May, 2008

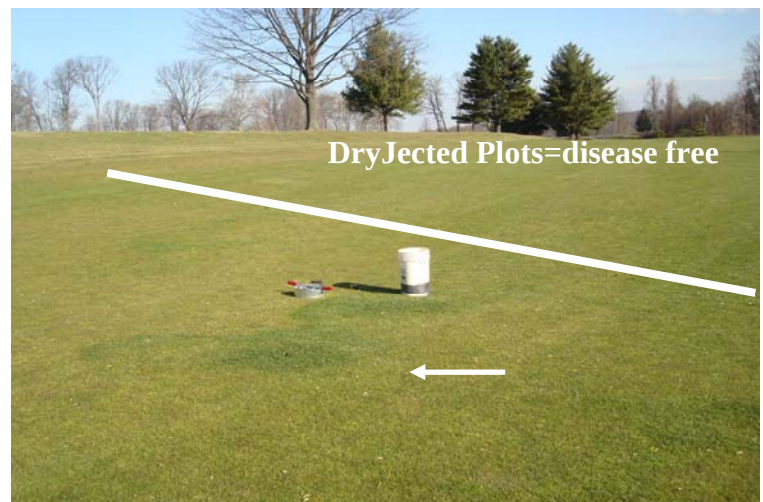
This study was executed and analyzed by:
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Mike McNulty- Superintendent Philadelphia CC
Phil Read and Joe Imzennik- Asst. Superintendents

What was found, so far? The fairway plots were injected with Profile Field & Fairway via DryJect and had significantly fewer Type I and II Fairy Ring symptoms when evaluated in January, 2009. Even the fairway plot injected in 2007 is still symptom-free. It was noted that the rings in the treated turfgrass areas were not wilting, whereas the untreated turf showed symptoms of wilt stress, typically due to fairy ring during summer months. Many soil physical factors have been measured over the course of these observations, and infiltration rates have increased in plots receiving DryJect with Profile Field & Fairway. The infiltration rate was 2% higher in plots injected once with Field & Fairway, and 18% higher in plots where the product was injected twice with DryJect, as compared to the non-injected plots. The need for increased water movement, especially in soils that are hydrophobic, could be a key reason to see this suppression. Water holding capacity and water porosity were also increased. Among the factors could be a physical disruption of the fungal area with the high powered water blasts injecting Profile Field & Fairway into the fairy ring infected soils.

Continuing research and observations:

We believe the reduction in fairy ring symptoms is a result of the combined physical and chemical properties associated with DryJect and Profile Field & Fairway. Trials will continue throughout 2009 in the mid-Atlantic region.

Additional research at on the effectiveness of Profile scheduled for alternate golf facilities in 2009/2010.



METHODS TO COMBAT FAIRY RINGS IN TURF

For many years, the standard method to combat fairy rings in turf has been the use of various chemicals. Lately a new and interesting way to combat fairy rings has emerged involving the application of Profile's Field and Fairway™ through the revolutionary DryJect service – a truly “GREEN ALTERNATIVE”.

1. CHEMICALS

- a. Combination of Brand A plus Brand C
Cost per application \$745.13/acre
Assume 4 applications per year
Cost per year \$2980.52/acre

- b. Combination of Brand B plus Brand C
Cost per application \$644.50/acre
Assume 4 applications per year
Cost per year \$2578.00/ acre

2. THE GREEN ALTERNATIVE

DryJect with 3.5 tons of Profile Field & Fairway per acre.

- Cost per application \$2800.00/acre
- Assume 1 application every other year
- Cost per year \$1400.00/acre**

During the ongoing study, the fairy ring suppression is still effective after 2 years.

The Green Alternative also provides the following advantages:

- a. Aeration of fairways
- b. Environmentally friendly – No chemicals
- c. Improved infiltration rate
- d. Better root system (observations)
- e. Firmer fairways (observations)
- f. Water savings (observations)

****Cost of applications will vary in different geographical areas.*

If you would like to learn more about DryJect or be a part of these field trials, please contact us at JBetulius@profileproducts.com or by calling (800) 207-6457.