

Effective Control Strategies For SNOW MOLD



Snow mold diseases occur during the winter through late spring, under snow cover throughout the northern United States. Without effective control, these fungi can damage turf, causing poor playing conditions. However, properly timed fungicide applications in the fall can effectively control snow mold, allowing for top-quality turf coming out of winter. While superintendents have many options when controlling this disease, several things need to be examined to determine the best possible solution to the problem, including the area to be treated, anticipated snow mold pressure and economics.

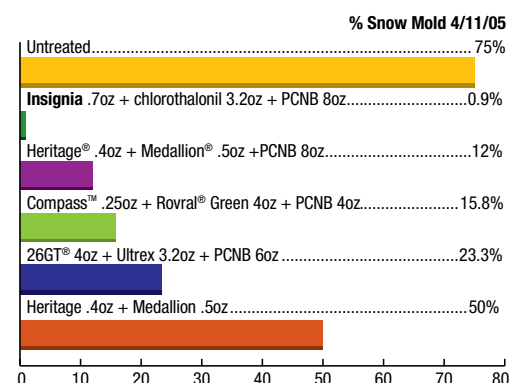
Studies Prove BASF Solutions Provide Excellent Snow Mold Control

Insignia® fungicide has proven to be an excellent foundational product to be used as part of a program approach to snow mold control (pink and gray). In 2004-2005, researchers at Michigan State University reported that a tank mix of **Insignia** + chlorothalonil + PCNB was the top-performing treatment among 60 different treatments that were evaluated (figure 1). The following year, an **Insignia** + chlorothalonil + PCNB combination again showed the greatest control of all products tested (figure 2). In 2005-2006, a University of Wisconsin study also showed the best results from **Insignia** tank mixes (figure 3, back page). Most recently, 2007-2009 studies have shown excellent results using **Trinity® fungicide** as a tank-mix partner (photos and figures 4 and 5, back page).

University of Wisconsin Trials 2007/2008



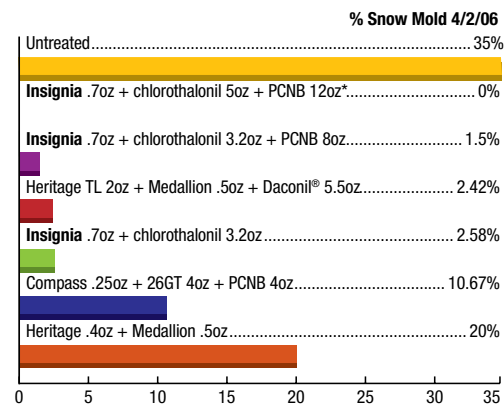
Figure 1. Control of Snow Mold on Fairway Creeping Bentgrass in Michigan 2004/2005



Application Date for Treated Areas 10/25/04

Michigan State University, 2005, creeping bentgrass/*poa annua*
Application Volume: 100 GPA
Location: Treetops/Sylvan Resort in Gaylord, MI
Partial data shown.

Figure 2. Control of Snow Mold on Fairway Creeping Bentgrass in Michigan 2005/2006

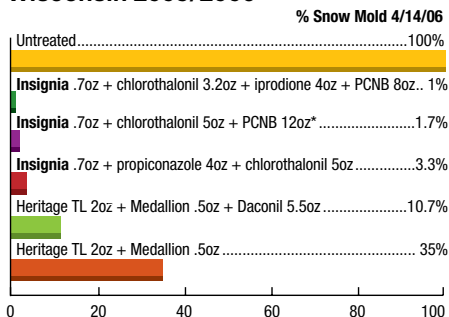


Application Date for Treated Areas 10/28/05

*Insignia was applied 4-Oct, while chlorothalonil and PCNB were applied 28-Oct.

Michigan State University, 2006, creeping bentgrass/*poa annua*
Application Volume: 100 GPA
Location: Treetops/Sylvan Resort in Gaylord, MI
Partial data shown.

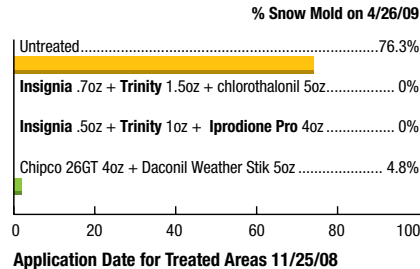
Figure 3. Control of Snow Mold on Fairway Creeping Bentgrass in Wisconsin 2005/2006



Application Date for Treated Areas 11/5/05
 *Insignia was applied 15-Oct, while chlorothalonil and PCNB were applied 5-Nov.

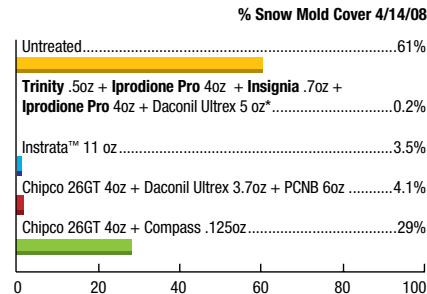
University of Wisconsin, 2006, creeping bentgrass fairway
 Application Volume: 86 GPA
 Location: Gateway Golf Club in Land O' Lakes, WI
 Partial data shown.

Figure 4. University of Wisconsin Snow Mold Trials 2008/2009



Application Date for Treated Areas 11/25/08
 University of Wisconsin, 2009, creeping bentgrass fairway
 Application Volume: 86 GPA
 Location: Sentryworld GC in Stevens Point, WI
 Partial data shown.

Figure 5. Michigan State University Snow Mold Trials 2007/2008



Application Date For Treated Areas 10/29/07
 *Trinity and Iprodione Pro were applied on 4-Oct., while Insignia, Iprodione Pro and Daconil Ultrex were applied on 29-Oct.

Michigan State University, 2008, creeping bentgrass fairway
 Application Volume: 100 GPA
 Location: Treetops/Sylvan Resort in Gaylord, MI
 Partial data shown.

Snow Mold Application Recommendations

Superintendents have numerous fungicide choices for snow mold control. On greens (see recommendation chart below) where the highest level of control is desired, a tank mix containing two or three products will likely be required.

A strong tank-mix choice with excellent performance is **Insignia** + chlorothalonil + PCNB. For superintendents concerned about possible turf discoloration from PCNB, an excellent choice is **Insignia** + **Trinity** + chlorothalonil (on fairways, however, tank mixes containing PCNB can safely be used and provide broad-spectrum snow mold control). In areas where disease pressure is lower, an application containing just two products, such as **Insignia** + chlorothalonil or **Insignia** + **Trinity**, is an excellent choice.

As an added benefit, an **Insignia** application for snow mold also provides effective cleanup of any remnants of diseases, such as anthracnose and dollar spot.

BASF Snow Mold Recommendations

Location	Level of Pressure	Product	Rate
Greens/Tees	Moderate/High	Insignia + Trinity + chlorothalonil	.7 + 1 + 5
Greens/Tees	Low	Insignia + chlorothalonil	.9 + 5
Greens/Tees	Moderate/High	Insignia + Iprodione pro + chlorothalonil	.7 + 4 + 3.2
Fairways (Greens/Tees)	Moderate/High	Insignia + chlorothalonil + PCNB	.7 + 3.2 + 8
Fairways	Low	Insignia	.9
Fairways	Low	Insignia + PCNB	.9 + 8



Always read and follow label directions.

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