## White Mold Poses Significant Threat To Soybean And Dry Bean Yields

RALEIGH, N.C.
that there is still plenty of white mold inoculum in the soil, making it necessary to take precau tions to minimize the disease risk for the 2012 crop.

## Minimizing white mold risk

David Feist, project development leader with MANA Crop Protection, reminds growers that white mold is not your typical disease where tra ditional management practices and generalized inputs are guaranteed to work as normally expected.
"White mold will persist in the soil for years and germinate when it comes in contact with a sensitive host crop like soybeans, dry beans, alfalfa or clover. Weeds like pigweed, ragweed and lambsquarters also provide a haven for white mold to survive, season after season. Unfortunately, there is no single factor that will preven white mold from developing," Feist says. "Relying on a preventative approach to get ahead of the problem is the best defense strategy."
In recent years the industry has struggled with full-scale solutions for white mold due to limited crop protection tools that could zero-in on mastering control. The good news is that MANA Crop Protection has prioritized white mold as a crical focus for technical develop ment - bringing a new-age tool to the rescue. Incognto white mold in soybeans, dry beans and other white mold in soybeans, dry beans and other crops. White whins against white mond brisease like Frogeye leaf spot Brown rot, An diseases thracn rusts.
Specific to white mold on soybeans, MANA Crop Protection recommends one application of Incognito at early bloom (R1 to R2 stage) followed by a second application seven to 14 days later if conditions are favorable for disease pressure. Feist notes that thorough coverage of soybean blossoms at time of application is critical for high level success using 15 to 20 ounces per acre during each application. For disease control beyond white mold on soybeans, Incognito rates can range from 10 to 20 ounces per acre. On dry beans, the manufacturer recommends one spray pass of Incognito when 100 percent of plants have at least one open bloom or when conditions are favorable for disease development. For single-application use, apply between cations are required, first application should be 20 to 30 ounces per acre and administered when 10 to 30 percent of the plants have at least one open bloom followed by sequential applications on a four- to seven-day interval.

## Timing critical for success

As with most fungicides, application timing is critical to achieve desired success over disease challenges. White mold control is no different. To quantify the importance of application timing with Incognito on white mold, the University of Illinois completed a study of the product's active ingredient, thiophanate-methyl, at varying times of treatment on soybeans. Results showed that applications completed during the R1 stage had a 38 percent improvement of disease incidence with a 15 bushel yield improvement at the first check during the season, and 12 percent improvement in disease management and yield with eight bushels added the second year Applications made after the disease was already present in a field (at the R3 phase) offered no significant disease or yield protection during the trial.
Feist, along with leading plant pathologists who are experienced with white mold, encour age strategic fungicide use as part of an inte grated disease management approach that includes crop rotation, selection of disease-resistant soybean and dry beans varieties, deeptillage adoption and wide-row spacing at time of planting.
"When it comes to white mold management selecting a fungicide tool specific to the disease with proper attention placed upon the most ad vantageous time of application goes a long way in reducing yield losses," Feist says. "Knowing and responding to the risk placed upon your crop, combined with other good farming practices, will yield the kind of results growers desire while putting more money in their pocket. Plus, new tools like Incognito fungicide are available as a targeted and more exclusive solution in
keeping white mold in check."

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