

See the difference, realize the potential

DuPont™
Approach®
fungicide

Midwest — Soybean White Mold

A Fungicide That Gives Growers Results Where They Can See a Difference

DuPont™ Approach® is a broad-spectrum fungicide that delivers more reliable results by controlling both foliar and soil-borne fungal diseases. It's an advantage you will want to see on your farm — potential you can actually see from a healthier-looking soybean crop to higher yield at the end of the year.

Key Benefits of Approach®:

- More complete coverage because it is rapidly absorbed and moves quickly into and within each plant. This can help compensate for less-than-ideal timing, since weather and other crop demands can make it difficult to plan fungicide applications perfectly.
- Unique ability to redistribute within the crop canopy, increasing protection deeper into the crop canopy, closer to the soil surface, where key diseases like soybean white mold originate.
- DuPont™ Approach® fungicide provides control of soybean white mold when utilized as part of an integrated pest management program.



White mold (aka *Sclerotinia stem rot*), caused by the fungus *Sclerotinia sclerotiorum*, is a disease of soybean and other broadleaf crops. Cool (temperatures below 85°F) and wet conditions, especially when soybean plants are blooming, are favorable for the development of white mold. White mold gets its name from the fuzzy white growth that can be observed on affected soybean plants. This growth is the mycelia of the fungus that causes the disease. Symptoms include wilting leaves, stems that appear to be “bleached,” and shredding of the stem tissue. Small black structures known as sclerotia can be found on and inside plants that have been affected by white mold.

Photo by: Daren Mueller, Iowa State University, Bugwood.org

Management of white mold in soybeans is difficult, and multiple practices must be integrated to achieve the best control:

- **Growing partially resistant varieties.** No soybean varieties are completely resistant to white mold, but some are less susceptible than others.
- **Row spacing.** In areas where white mold is a severe problem year in and year out, wider (30-inch) row spacings may reduce the disease's impact.
- **Seeding population rate.** High plant populations can decrease the airflow through the canopy, which can increase the spread of white mold.
- **Crop rotation.** 3–5 years of a non-host crop such as corn, wheat and sorghum.
- **Weed management.** Controlling weeds species that act as an alternate host for soybean white mold can reduce the amount of sclerotia in the field.

Source: Bradley, C.A.; *The Bulletin*, University of Illinois, Urbana, IL, July 24, 2009 Issue No. 18, Article 8.

DuPont™ Approach® fungicide program recommendations:

- A single Approach® fungicide application carefully timed during the bloom period may be sufficient, but two applications may be necessary in crops with a longer bloom period and when environmental conditions are favorable and disease pressure is high.
- To be effective, it is necessary that fungicides penetrate deep into the canopy to adequately cover the flowers and the places on the plant where the senescing petals might adhere or become lodged.
- Approach® is also effective in controlling other soybean foliar diseases, while maintaining plant health for improved yields.
- See label for specific application details.



June
Timing:
R1–R2

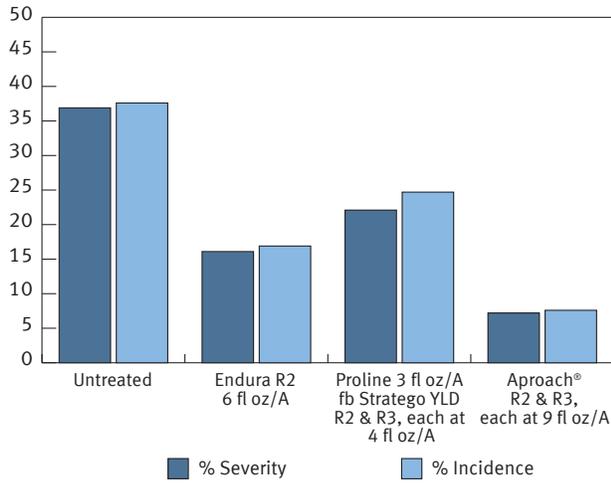
Approach® 9.0 fl oz/A

Targeted diseases:

- Soybean white mold

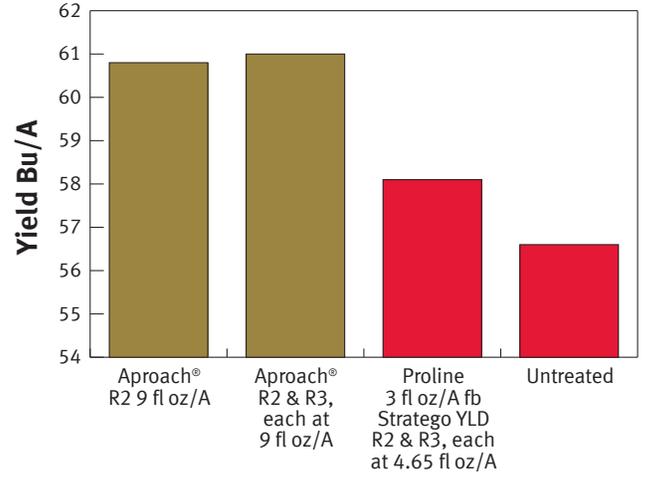


Approach® Soybean White Mold Disease Control – 2013



Source: DuPont 2013 — MI.MWH-13-357

Approach® Yield Advantage



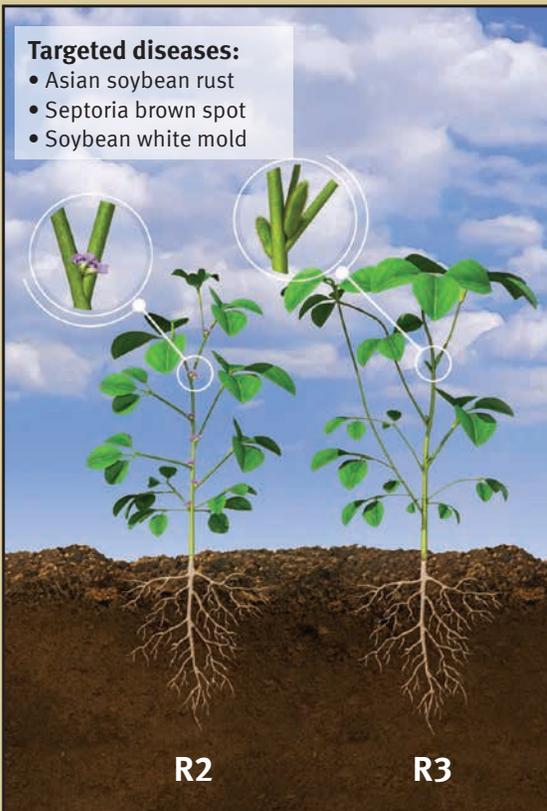
Source: DuPont 2013 — IL.MWE-13-679

**Late June – July
Timing:
R2–R3**

Approach® 9.0 fl oz/A as needed

Targeted diseases:

- Asian soybean rust
- Septoria brown spot
- Soybean white mold





The miracles of science™

DuPont™ Approach® fungicide



Untreated check. White mold, Stanton, Mich.
Photo taken September 12, 2011.



9 fl oz Approach® applied twice, Stanton, Mich.
Photo taken September 12, 2011.

DuPont™ Approach® fungicide is another example of how DuPont Crop Protection works with growers to understand their crop needs to get the most out of every acre from seed to harvest.

Average Reduction in % Severity of Soybean White Mold and Corresponding Yield Increase

	Approach® vs. Untreated n=6		Approach® vs. Domark n=2		Approach® vs. Topsin n=3		Approach® vs. Proline fb Stratego YLD n=2	
	% Reduction in Severity White Mold	Yield Bu/A Advantage	% Reduction in Severity White Mold	Yield Bu/A Advantage	% Reduction in Severity White Mold	Yield Bu/A Advantage	% Reduction in Severity White Mold	Yield Bu/A Advantage
Approach® Advantage	27.6	7.2	37.5	8.0	17.7	2.2	1.2	0.2
Increased Return \$/A		\$93.82		\$104.00		\$28.17		\$2.60

Yield Benefit:

Approach® fungicide has been proven effective in reducing the severity of soybean white mold, while increasing yields.

Yield summary of checks from:

2009 tests: Dorrance, Ohio State (MWH-09-679, Williams var.) all treatments applied 1 time; Bradley, Univ. Illinois (MWE-09-679) all treatments applied 2x except Topsin and Domark.

2010 tests: Kirk, Mich. State Univ. (MWH-10-779, S20-P5 var.) all treatments applied 2x; Bradley, Univ. Illinois (MWE-10-779, A2902 var.) all treatments applied 2x.

2011 tests: Kirk, Mich. State Univ. (MWH-11-679, 92Y51RR var.) all treatments applied 2x; Bradley, Univ. Illinois (MWE-11-679, P92M54 var.) all treatments applied 2x; Dorrance, Ohio State (MWH-11-579, P93B36 var.) all treatments applied 2x, run in grower field.

- % severity rating is a DSI index rating based on 0–100, where 100 means all 30 plants rated in a plot had severe infection on the main stem resulting in plant death and poor pod fill, and 0 means no white mold. The DSI index is a measure of area diseased hence, severity — so is reported as % severity.
- Used an average of \$13 per bushel

For more information

Contact your local DuPont retailer or representative to learn more about Approach® fungicide. And visit us at approach.dupont.com.



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