



**PROSARO®**

# GROWING WHEAT WITH PROSARO.® IT'S LIKE GROWING MONEY.

Prosaro fungicide from Bayer CropScience gives farmers powerful activity on both leaf and head diseases for broad-spectrum disease control. This superior activity delivers proven yield and quality increases under a wide range of environmental conditions.

## BENEFITS

- Powerful performance against Fusarium head blight
- Proven deoxynivalenol (DON) reduction in harvested grain
- Preventive and curative action against leaf diseases
- Increased grain quality and higher yields
- Strong performance in both spring and winter wheat

## PROSARO QUICK FACTS

EPA Reg. No.	264-862
Restricted Use	No
Signal Word	Caution
Restricted Entry Interval	12 hours
Pre-Harvest Interval	30 days
Application Option	Via ground, aerial or chemigation
Rainfastness	2 hours

## BETTER THAN A STROBILURIN

Field trials conducted in multiple states across multiple years have shown Prosaro brings farmers several big benefits over using a strobilurin product. The most significant benefit is that strobilurins applied after flag leaf emergence may increase DON levels, whereas Prosaro brings DON levels down.

*When you put a product side by side and you run a yield monitor against it in the same environmental conditions, you can see the difference immediately. **You can actually see the difference from a distance of a field that is a mile away** just in the color of the straw that Prosaro treats it. Not only is it a cure but it's like a preservative too. It helps to prolong the filling process of the grain and gives you the maximum potential of more bushels per acre.*

*You can show them [farmers] evidence on paper that shows what you did and how you did it, but until they try it in their fields... That's where they'll become the true believers - that this is a product that works every time you apply it. I don't care if it's dry conditions or wet conditions; Prosaro gives you a return on investment every time.*

*-Greg Messer, North Dakota*





HOW PROSARO WORKS

Prosaro fungicide provides broad-spectrum disease control to help maximize yield and profit potential in wheat and barley, protecting your crop from both head and leaf diseases.

Prosaro stops the penetration of the pathogen into the plant and stops the spread of infection within the plant. As a result, Prosaro inhibits the reproduction and further growth of fungus.

AN UNWELCOME GUEST: DON

Prosaro offers the best protection on the market against scab (Fusarium head blight), which in turn can lead to increased grain quality and yields. It is a proven reducer of DON contamination in wheat.

DON, sometimes referred to as vomitoxin, is a mycotoxin that is sometimes produced in wheat and barley grain infected by scab. Scab is most prevalent when wet weather occurs during the flowering and grain-filling stages of plant development. The occurrence of scab does not automatically mean that DON will be present, but it does increase the odds dramatically.

Recent regulatory changes from the Chicago Board of Trade lowered the acceptable presence of DON from 3 ppm to 2 ppm. These changes mean that even trace amounts of DON in your fields can have significant impact on the grains’ marketability. Apply Prosaro at the optimal timing – early flowering and before scab

symptoms are visible – for the best performance. And even when scab is not present, Prosaro does an excellent job protecting against all other major leaf and grain head diseases.

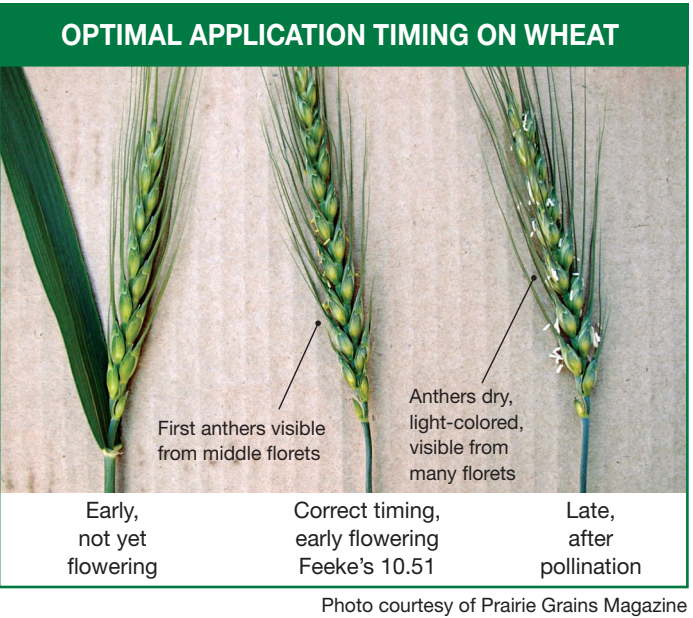
OPTIMAL RESULTS WITH PROSARO

As with any disease, scab infection is dependent on the so-called “disease triangle” – pathogen presence, host plants and favorable conditions – all of which must be present for an outbreak. Because the Fusarium pathogen survives on residue of small grains and corn, it is typically the cropping environment that determines the severity of disease outbreaks.

The best conditions for wheat growth and yield potential are also ripe for disease development – that is, warm, humid weather. Apply Prosaro during these conditions to reduce the risk of infection and protect the yield and quality potential that already exists in your crop. Prosaro is rainfast within two hours of application or until fully dry on the leaf surface.

When you apply Prosaro at recommended application timings, you get powerful activity on the following diseases:

- Fusarium head blight (scab)
- Leaf, stem and stripe rusts
- Septoria leaf spot
- Glume blotch
- Tan spot
- Powdery mildew



HEAD DISEASE MANAGEMENT

The recommended application rate for Prosaro is 6.5 fl oz/A under normal conditions, but you can use the higher 8.2 fl oz/A rate in cases of high disease pressure. Research has shown the optimal application timing for scab control is at early flowering (Feeke’s 10.51). Proper timing and adequate coverage of the grain head are critical to maximize activity on Fusarium head blight. Most researchers recommend the following spray coverage guidelines when making a ground application:

- Use flat fan nozzles
- Calibrate for medium- to fine-size drops (250 to 300 microns)
- Angle nozzles forward 30 to 45 degrees down from horizontal (30 degrees is preferred)
- Position nozzles 8 to 10 inches above grain heads

LEAF DISEASE MANAGEMENT

As with grain head diseases, the recommended application rate for leaf disease control is 6.5 fl oz/A under normal conditions, but you can use the higher 8.2 fl oz/A rate in cases of high disease pressure. Apply at early flowering to protect upper leaves and heads, resulting in the best yield preservation. If you need to make an earlier application, Prosaro stops existing fungal development and protects against new infections on the treated plant tissue. It does this without increasing mycotoxin production in grain, as strobilurins are prone to do.

WIDESPREAD SUCCESS

Prosaro has been rigorously tested across the United States and abroad. Because of its excellent performance across Europe, Prosaro continues to be a leading standard for scab control in that geography. And more wheat farmers are turning to Prosaro in the United States as a top solution for both leaf and grain head diseases. U.S. farmers can take note that Prosaro is used with confidence in regions that demand some of the most intensive, integrated management practices in the world.



Apply Prosaro to reduce the risk of infection and protect the yield and quality potential that already exists in your crop.

ACTUAL FIELD TRIAL GRAIN SAMPLES

TREATED

Prosaro fungicide can help protect wheat (pictured) and barley grain from the damaging effects of head scab and DON. The result is higher yield and grain quality potential.

UNTREATED

Wheat (pictured) and barley that have been infected with head scab will still produce grain, but they may be small, lightweight and discolored. They also risk the chance of carrying unacceptable levels of the DON mycotoxin.

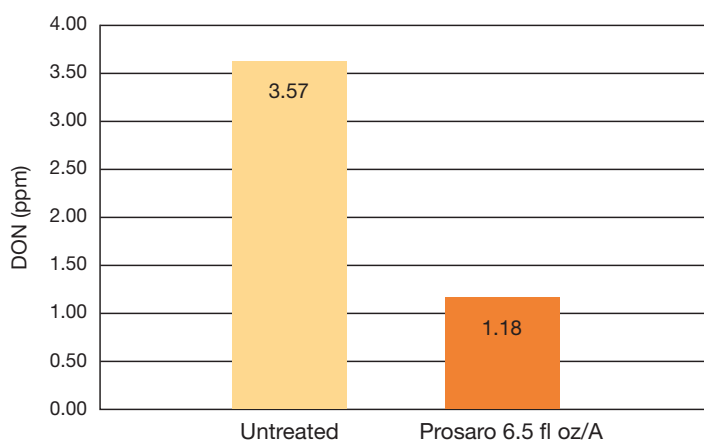




## PROSARO RESULTS IN IMPROVED GRAIN QUALITY AND INCREASED YIELD

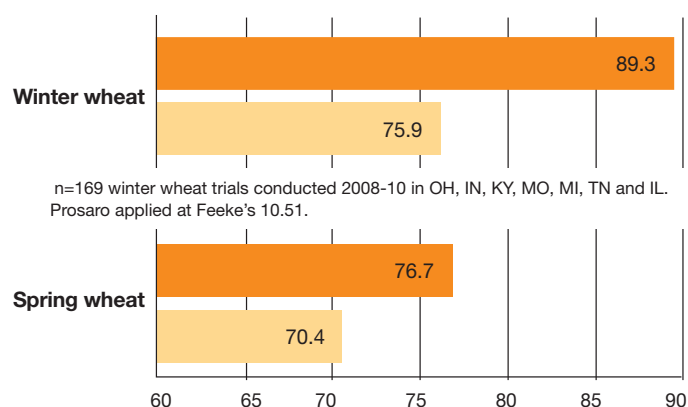
In replicated research trials, the broad-spectrum performance of Prosaro increases yield and helps preserve grain quality.

### DON LEVEL REDUCTION WITH PROSARO



Results from 31 winter wheat trials conducted 2008-10 in IN and OH. Prosaro applied at Feeke's growth stage 10.51.

### PROSARO INCREASES YIELD (BU/A)



n=169 winter wheat trials conducted 2008-10 in OH, IN, KY, MO, MI, TN and IL. Prosaro applied at Feeke's 10.51.

n=28 spring wheat trials conducted 2008-10 in ND, SD and MN. Prosaro applied at Feeke's 10.51.

Prosaro 6.5 fl oz/A    Untreated

## COMMITTED TO SUCCESS IN CEREALS

Bayer CropScience is committed to bringing new and innovative solutions to crop protection. Part of our commitment is reflected in our local Cereal Experts representatives. For any questions concerning the use of Prosaro, call your local sales representative or the Bayer CropScience information line at 1-866-99-BAYER (1-866-992-2937) or visit [www.cerealexperts.com](http://www.cerealexperts.com).

### Prosaro.us

**IMPORTANT:** This bulletin is not intended to provide adequate information for use of these products. Read the label before using these products. Observe all label directions and precautions while using these products.

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