

Quilt Xcel Fungicide

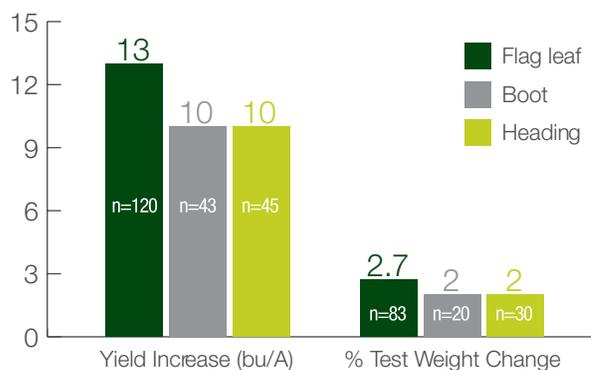
Alleviating drought stress in cereal crops through improved physiological benefits

The Challenge: Lost Yield Potential from Stress and Disease

Cereal crops face many stresses during the season from diseases, weather and periods of too much or too little rainfall that can negatively affect wheat and barley crops. During the day, moisture evaporates from plants through transpiration. The rate of transpiration is determined by a number of factors, including light intensity, temperature, humidity, wind speed and soil water supply. In high temperatures or drought situations, the rate of transpiration increases—much like humans perspire to cool down.

Drought conditions also reduce the period of photosynthesis, which can lead to reduced yield and grain quality. The flag leaf is the final leaf that emerges and is responsible for approximately 70 percent of the total leaf area that contributes to grain fill. Research shows that protecting this flag leaf is essential to maximizing yield potential and overall crop quality.

Why Apply a Fungicide at Flag Leaf vs. Heading?



n=number of trials; Flag leaf = Feekes 8-9, Zadoks 37-39; Boot = Feekes 10, Zadoks 45; Heading = Feekes 10.1-10.5, Zadoks 51-58

How Quilt Xcel® fungicide can help:



Grow healthier plants

- Helps plants withstand wet conditions through preventive and curative control of diseases that thrive in this type of environment.
- Enables plants to maximize crop growth and extend time for grain fill, producing wheat and barley with fuller kernels and higher test weights.
- Boosts yield an average of 9 to 11 bu/A.



Increased water use efficiency

- Helps plants better tolerate dry conditions by slowing down water loss, conserving soil moisture and allowing plants to continue with grain fill.



Enhanced green leaf area

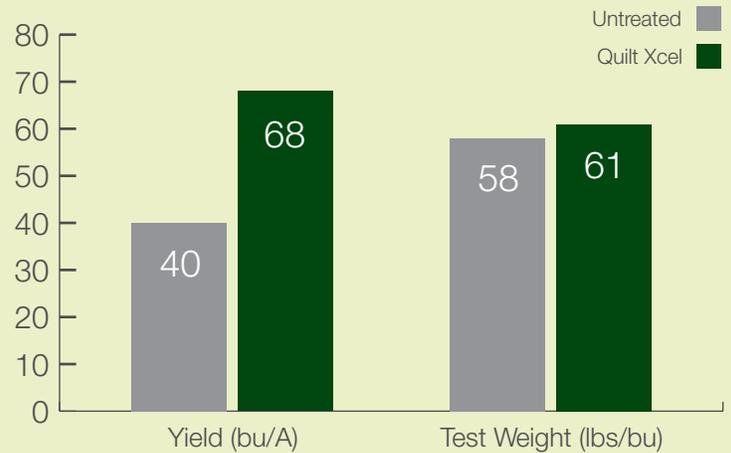
- The plant is able to maintain healthy green leaves longer, improving plant quality and maximizing yield at harvest.
- As research has shown in cereal crops treated with Quilt® brands, the plant retains green tissue up to eight days longer than the untreated.

Broad-spectrum disease control

Quilt Xcel shields the valuable flag leaf from disease, allowing it to help fill kernels and maximize yield and quality.

- Safeguards wheat and barley against yield-robbing diseases, including rusts, powdery mildew, tan spot and *Septoria*
- Applying Quilt Xcel between Feekes 8 – 10.5 or Zadoks 37-58 helps developing crops tolerate disease
- Reduces worries about late disease infections
- Offers tank-mix flexibility and cross-crop application convenience

Quilt Xcel Performance in Wheat



Cheney, Wash. Number of Trials = 4

Disease ID: Which of these are impacting your wheat yields?



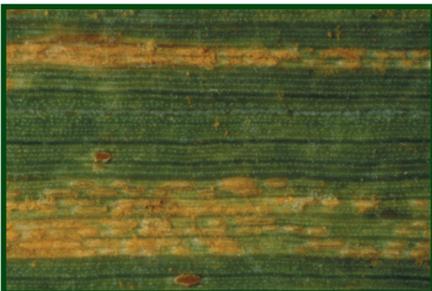
Leaves affected by Septoria leaf blight often turn yellow, wither and die.



Tan spot overwinters on infected wheat stubble or straw, and the spores are spread by wind.



Tan spot appears early, and typically leaves turn yellow, wither and die early.



Stripe, leaf and stem rust all affect wheat and barley and can cause significant yield loss.



Powdery mildew, which appears as powdery white spots, is most prevalent in parts of the field where growth is dense and the air is moist.



Severe infestations of powdery mildew cause infected leaves to wither and die early.



Product performance assumes disease presence. All photos are the property of Syngenta unless otherwise noted.

©2013 Syngenta. **Important: Always read and follow label instructions. Some crop protection products may not be registered for sale or use in all states or counties. Please check with your local extension service to ensure registration status.** Quilt®, Quilt Xcel®, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of a Syngenta Group Company.