



A record harvest is a good problem to have.

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## Proline

### Overview

### Application Tips

### Canola Protection

Research results show that Proline sets a new standard for disease control in canola. Proline provides a high level of consistent sclerotinia control when applied between the 20% and 50% flower stage.

### Sclerotinia Control in Canola

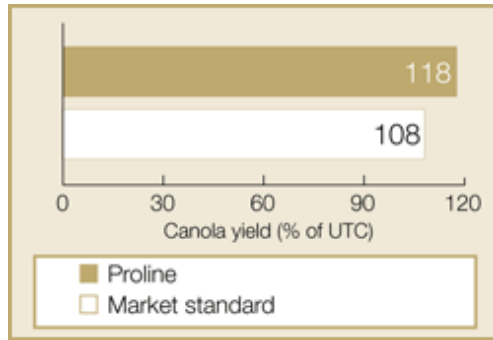
### Search

Region: Ontario

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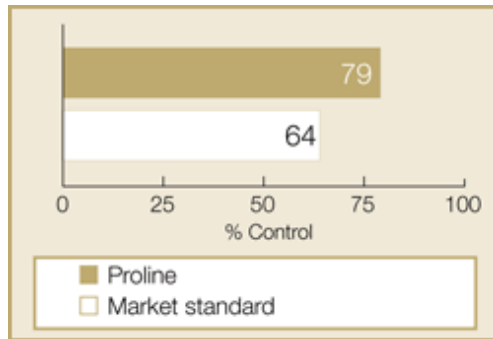
Serenade CPB  
 Stratego  
 Stratego PRO  
 Tattoo C  
 Herbicides  
 Insecticides  
 Other  
 Seed  
 Seed Treatments



Source: 5 Bayer CropScience trials – 2001 to 2002.

#### Sclerotinia Disease Control in Canola

Stem infection incidence reduction UTC average disease incidence = 47%



Source: 6 Bayer CropScience trials – 2000 to 2003.

#### Cereal Protection

Research has shown that Proline provides the best protection globally in both wheat and barley against fusarium head blight (FHB). Research has also shown that cereal crops treated with Proline can result in grain with significantly reduced levels of mycotoxins, especially deoxynivalenol (DON). When Proline is applied to wheat at early flowering, DON levels are dramatically reduced compared to an untreated check.

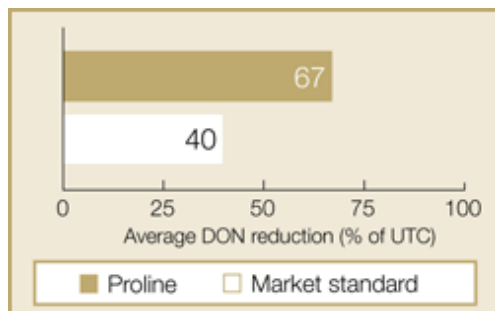
#### DON Reduction in Wheat

#### Find My Local Bayer Rep



Don't know your local Bayer CropScience representative?

Enter Postal code...



Source: 6 Bayer CropScience trials – 2003 to 2004.

### Corn Protection

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Proline is the only fungicide registered to suppress fusarium and gibberella ear rot, and because of its activity on gibberella ear rot, Proline effectively reduces DON levels, too. Proline provides the best yield increase when disease is present – giving you a better return on your investment.

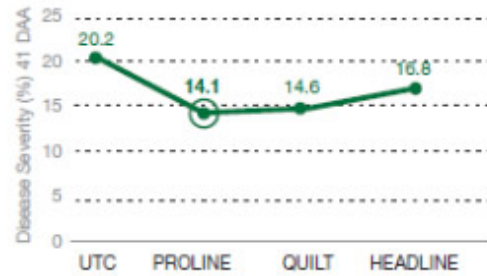
#### Features and Benefits:

- Produces higher yields and better quality corn
- The only fungicide registered to lower DON levels
- The only fungicide registered for stalk rot suppression
- 2 rate options: leaf disease rate and DON reduction rate (fusarium and gibberella ear rot suppression)
- Controls more diseases than any other corn fungicide
- Provides both post-infection and protective disease control
- Brought to you by the fungicide experts at Bayer CropScience
- Registered for aerial protection

#### Application Tips:

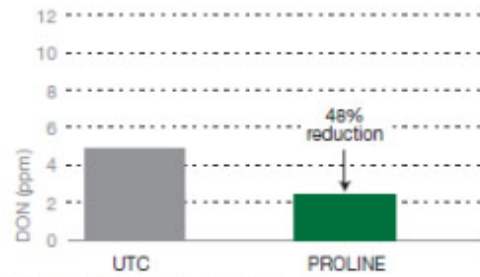
- Fields should be scouted for early disease symptoms, particularly when susceptible varieties or hybrids are under prolonged conditions favourable for disease development
- Optimal efficacy relies on thorough spray coverage. Ensure spray equipment is set up to maximize spray coverage and use flat fan nozzles
- A non-ionic surfactant may be added at 0.125 %v/v
- Rainfast in 2 hours

**DISEASE SEVERITY (ALL DISEASES)**



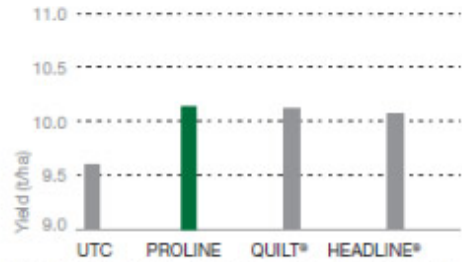
\*2009 - 2010 field trials - 3 Ontario locations, 4 hybrids tested

**PROLINE DON SUPPRESSION**

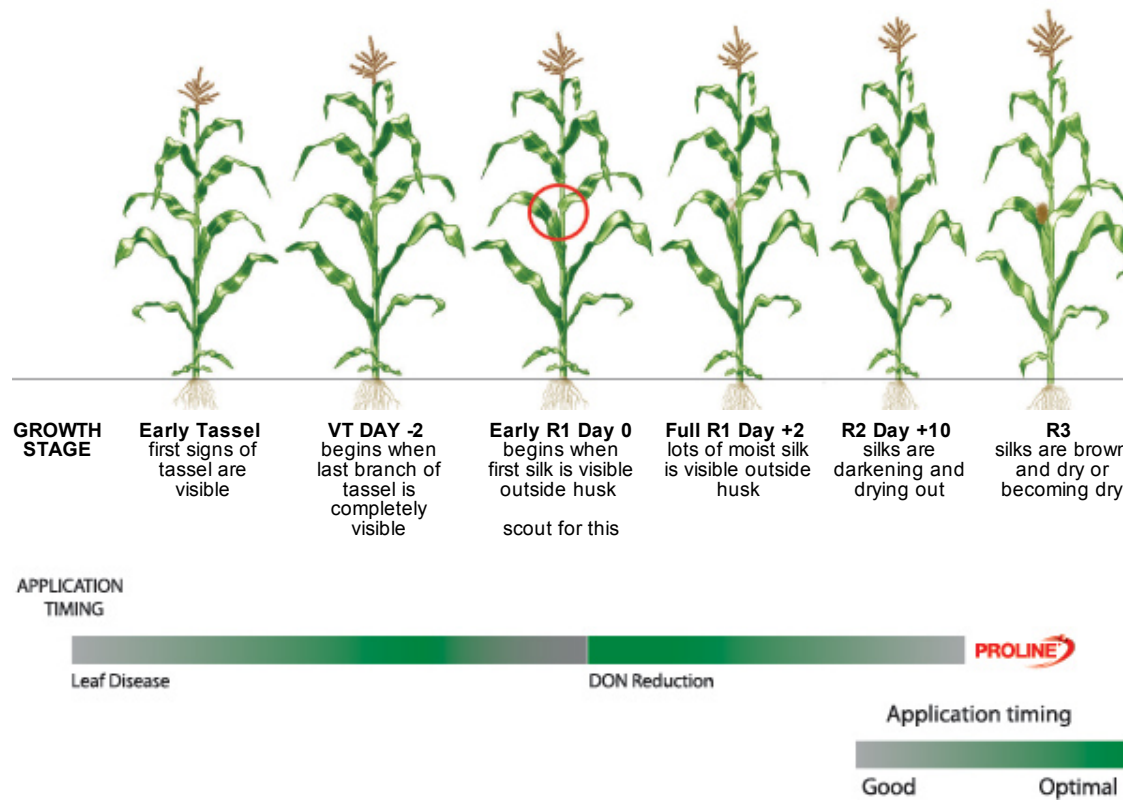


\*2009 - 2010 field trials - 6 Ontario locations

**PROLINE YIELD**



\*2009 - 2010 field trials - 3 Ontario locations, 4 hybrids tested



Timing – Corn		
DISEASE	RATE	TIMING
Eyespot Grey leaf spot Northern blight Rusts	316 mL/ha (128 mL/ac.)	Apply at early tassel to the start of silking
Fusarium ear rot (suppression) Gibberella ear rot (suppression) Stalk rot pathogens (suppression) <i>Fusarium</i> spp. <i>Gibberella</i> spp. <i>Colletotrichum</i> spp.	420 mL/ha (170 mL/ac.)	Apply from the development stage of corn between silking and silk browning. Scout for Day 0 (early R1) when the first silks are present out the husk.

Timing	

Wheat	Timing of application is critical. For optimum protection against Fusarium head blight, apply from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower
Barley	Unlike wheat, which flowers after it has completely headed, barley begins to flower in the boot. While the disease can infect the barley head prior to total head emergence, it is important to wait until most of the barley heads have emerged to attain maximum coverage. Applying Proline at this time will protect the exposed florets from the risk of infection. Delaying application past head emergence will reduce protection and increase the risk of disease infection
Canola	The goal when applying Proline is to protect as many canola flower petals as possible, prior to significant petal drop. The optimum timing is between 20 and 30% bloom. Application with Proline fungicide can occur from 20 - 50% bloom. To accurately identify the bloom stage of your crop, follow these steps: 1. Find the main stem. 2. Pull off the secondary branches. 3. Count only the open flowers on the main stem including aborted flowers and newly formed pods. 4. Sample several plants across the field.
Soybeans	R 1-R 5 (R 2-R 3 or at onset of pod formation is optimal).

For all other crops consult the label.

<b>Rate</b>	
A non-ionic surfactant is not required when applying Proline on canola, pulses, corn or soybeans.	
Canola	128 mL/ac. 5.1 L jug (standard rate) treats 40 acres
Cereals	128 mL/ac. 5.1 L jug treats 40 acres (apply with non-ionic surfactant)
Corn	<ul style="list-style-type: none"> <li>• Leaf disease control: 316 mL/ha (128 mL/ac.) Each 5.1 L jug treats 16.2 ha (40 ac.)</li> <li>• Fusarium and gibberella ear rot suppression and DON reduction: 420 mL/ha (170 mL/ac.) Each 5.1 L jug treats 12 ha (30 ac.)</li> </ul>
Soybeans	128 mL/ac. 5.1 L jug treats 40 acres

<b>Water Volume</b>	
Aerial - 50 L/ha (4.5 gal./ac.)	
Ground - 175 L/ha (19 gal./ac.)	

### ▼ Active Ingredients

Prothioconazole - Group 3

**▼ Crops**

Barley  
Blueberry - lowbush  
Borage  
Canola  
Chickpeas  
Crambe  
Field Corn  
Flax  
Lentils  
Oats  
Oriental mustard  
Soybeans  
Sweet Corn  
Wheat

**▼ Pests Controlled**

Asian soybean rust  
Leaf rust  
Net blotch  
Scald  
Sclerotinia stem rot  
Septoria  
Septoria leaf blotch  
Tan spot

**▼ Pests Suppressed**

Fusarium head blight

**▼ Labels and MSDS**

- Proline label
- Proline MSDS

▼ **Province of Registration**

Alberta  
British Columbia  
Manitoba  
New Brunswick  
Newfoundland  
Northwest Territories  
Nova Scotia  
Nunavut  
Ontario  
Prince Edward Island  
Quebec  
Saskatchewan  
Yukon

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