2017 FUNGICIDE TRIAL RESULTS
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<td>Proline</td>
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why do you live a grower’s life?
why do you keep pushing, day after day?
why do you lift, drive, eat, strain and sweat…
without ever punching in or out?

it’s because you work in acres, not hours.
because last season, like yesterday, is gone.
because there’s just one thing on your mind,
getting more out of every seed, row and field.
for you. for the farm. for the record.

so why do you do it?

because you live off the land,
you love this life,
and your best harvest
is yet to come.

it’s grow time.
it pays to spray.

Visit ItPaysToSpray.ca for results from the Bayer fungicide field scale trial program and see how a fungicide application can benefit your farm and your bottom line.
better protection. better yields.

The numbers don’t lie. If you’re looking to maximize your yield potential and disease protection, Bayer fungicides continue to lead the way. Across a wide range of crops and an even wider range of geography, weather, soil conditions and disease pressure, a fungicide application continues to deliver increased quality, yield and most importantly, ROI.

a decade of trial data

We have just completed our 10th consecutive year of Fungicide Demonstration Strip Trials (DSTs), proving once again, that fungicide application is still one of the best things you can do to get the most out of your crop.

Over that decade, we’ve never stopped working to give you the most accurate information possible across the widest range of conditions. Wet years or dry, from heavy disease pressure to low, no matter where you farm – we want to give you a good idea of what you can expect from your fungicide. And the results have been positive.

10 years of return on investment

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Numbers expressed as gain in bu./ac. versus the untreated check.

Source: Bayer grower-cooperated replicated DSTs (2008–2017). ‘N’ represents the number of trials in each case. Assumes $6/bu. wheat price and $5/ac. application cost. Note: Not all products are included in every trial.
ten years of trials you can trust.

For ten years we’ve been conducting trials with our partner growers as part of the Bayer Fungicide Demonstration Strip Trial (DST) program.

Whether it’s cereals, canola, pulses or soybeans, we’re in the business of helping you grow more and better. That’s why over the last decade, we’ve conducted hundreds of trials across the Prairies, testing our fungicides against the competition and ourselves. Over the next few pages you’ll see the results of those trials and the benefit of putting together a fungicide program for your farm.

To calculate the potential return on your fungicide application, visit the Bayer Fungicide ROI Calculator at cropscience.bayer.ca/ROICalculator
cereals
you spray. it pays. you win.

There are those out there who say fungicides don’t give you a good return on your cereal investment when the weather’s dry. They’d be wrong about that. In a variety of conditions, if you’re looking for a return on your cereal investment, fungicide application is the right thing to do. All of the research we’ve conducted over the years has shown that even in dry years*, fungicides more than pay for themselves.

In fact, it only takes an increase of +4 bu./ac. for Prosaro XTR to cover the cost of your application**. After that it’s all gravy. And by gravy we mean profit.

*Note: Dry year is defined as <85% of average growing season precipitation
**Calculation used $6 bu./ac. wheat price and a $5/ac. application cost
wheat yield – competitor results

2017 wheat competitive results – 10 trials

- Prosaro XTR: 73.8 bu./ac.
- Caramba®: 72.8 bu./ac.
- Untreated: 66.6 bu./ac.

See a +7.2 bu./ac. advantage for Prosaro XTR applied at head timing over the untreated check.

To see local results, visit: ItPaysToSpray.ca

Source: 10 Bayer grower-cooperated replicated Wheat DSTs (2017).
Your results may vary according to agronomic, environmental and pest pressure variables.

barley yield – competitor results

2017 barley competitive results – 5 trials

- Prosaro XTR: 100.1 bu./ac.
- Caramba®: 95.2 bu./ac.
- Untreated: 91.4 bu./ac.

Trial data shows that Prosaro XTR provided an +8.7 bu./ac. increase over the untreated check and a +4.9 bu./ac. increase over Caramba®.

Your results may vary according to agronomic, environmental and pest pressure variables.
It’s undeniable. **Prosaro** applied at head timing can improve your grade 23% of the time.* And improved grade means more. More yield, more confidence and more ROI.

*Source: Bayer grower-cooperated replicated Wheat DSTs (2008–2016)
Your results may vary according to agronomic, environmental and pest pressure variables.
are fungicides worth it in a dry year?

A lot of growers think that applying a fungicide won’t provide a return in dryer years. The research says otherwise. Although wetter fields increase disease severity, it’s surprising how little moisture is actually required for an outbreak.

Even with precipitation levels ~60% of normal, spraying Prosaro or Prosaro XTR can still pay for itself, making planning for a fungicide application well worth the effort.

**wheat yield by moisture level**

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<th>&lt;60% of normal precipitation</th>
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Numbers expressed as gain in bu./ac. versus the untreated check.

Source: Bayer grower-cooperated replicated Wheat DSTs (2008–2017); ‘N’ represents the number of trials in each case. Assumes $6/bu. wheat price and $5/ac. application cost.
focus on getting a head start.

In some cases with high disease levels at the flag leaf stage, you might need an immediate application; however, data shows a head timing application will provide a better yield and quality benefit. Treatment at this stage gives you both protection of the flag leaf and supplies critical head protection throughout the grain-fill period.

**Prosaro head timing trials**

- **early head**
  - Head is completely exposed, but just emerged from the flag leaf.

- **optimal head**
  - Head extended up from the flag leaf, first flowers visible.

- **late head**
  - Head fully flowered/flowers falling off.

A head timing fungicide application isn’t just about protecting your cereal crop against FHB — it simply provides a better yield and quality benefit.

Source: 11 Bayer grower-cooperated replicated Wheat DSTs (2012–2013 and 2016). Numbers expressed as gain in yield versus the untreated check. Your results may vary according to agronomic, environmental and pest pressure variables.
fusarium: the problem that never goes away.

There was a time fusarium was more of an eastern Canadian problem, but as this map shows, that’s changed. Regardless of where you are, fusarium is a very real threat that needs to be factored into your yearly cropping plans.

That being said, if you’ve been exposed to fusarium, you know how hard it is to get rid of. If it’s just a few cereal fields, taking them out of production for three years to allow crop residue to degrade is one way to go. If you have a larger number of fields, that probably won’t work as well, meaning you’ll need to put a disease management plan, including seed treatment and foliar fungicide, in place to ensure you’re still getting the most out of your cereal crop.

2016 fusarium incidence across the prairies

percent of grain samples containing FDK
Canadian Grains Commission Harvest Sample Program

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DON and FDK reduction – impact on quality

9-year DON and FDK reduction in wheat

In head-to-head trials, Prosaro provided a 40% FDK reduction and a 41.6% DON reduction against the untreated check.

Your results may vary according to agronomic, environmental and pest pressure variables.
IT'S GROW TIME

2017 FUNGICIDE TRIAL RESULTS /// CEREALS

new
Prosaro XTR

cereals
pulses
canola

it pays to spray
the best just got better.

New Prosaro XTR works harder to improve the yield, quality and bushel weight of your cereal crops. With its next generation formulation, Prosaro XTR gives you control of the most dangerous leaf and head diseases, including best-in-class fusarium head blight protection.

the **Prosaro XTR** advantage

- +14.5% yield increase over the untreated check
- The formulation enhancement with mefenpyr-diethyl helps plants metabolize stresses faster, resulting in higher yields
- The power of two fungicide actives, prothioconazole and tebuconazole, for protection against the broadest spectrum of diseases
- Outstanding FHB protection
- The most comprehensive DON and FDK reduction for a better quality and grade

*Prosaro XTR provides +14.5% yield increase over the untreated check.*

*Source: 15 product development trials in spring wheat (2014–2016)*
we’ve got our finger on the pulse.

Growing pulses can be profitable... and a little tricky. That’s because pulses spend more time in the ground than most crops, increasing the risk of exposure to disease. Disease that can affect quality, yield and your bottom line.

At Bayer, we’re always working to take some of the risk out of the equation. Last year was no exception and we’ve got the numbers to prove it.
lentil yield – competitor results

3-year lentil competitive results – 30 trials

- Delaro®: +3.0 bu. versus untreated
  - Yield: 29.9
- Priaxor®: 28.3
- Untreated: 26.9

See a +3.0 bu./ac. advantage for Delaro compared to the untreated check.

To see local results, visit: ItPaysToSpray.ca

lentil sequential application results

3-year lentil sequential application results – 16 trials

- Delaro followed by Proline®: +3.1 bu. versus untreated
  - Yield: 32.3
- Delaro: +2.4 bu. versus untreated
  - Yield: 31.6
- Untreated: 29.2

Delaro followed by Proline (14 days later) provided a staggering 10.6% yield increase in lentils compared to the untreated check.

Source: 30 Bayer grower-cooperated replicated Lentil DSTs (2015–2017). Your results may vary according to agronomic, environmental and pest pressure variables.

Source: 16 Bayer grower-cooperated replicated Lentil DSTs (2015–2017). Your results may vary according to agronomic, environmental and pest pressure variables.
field pea – competitor results

3-year field pea competitive results – 37 trials

- Delaro: +6.3 bu. versus untreated, yield 63.6 bu./ac.
- Priaxor®: yield 60.1 bu./ac.
- Untreated: yield 57.3 bu./ac.

Three years of trial data shows that Delaro in field peas provides a +6.3 bu./ac. yield increase over the untreated check.

soybean – yield results

5-year soybean results – 13 trials

- Delaro: +2.6 bu. versus untreated, yield 47.7 bu./ac.
- Untreated: yield 45.1 bu./ac.

Delaro in soybeans on average provided a +5.8% yield increase over the untreated check.

Source: 37 Bayer grower-cooperated replicated Field Pea DSTs (2015–2017). Your results may vary according to agronomic, environmental and pest pressure variables.

Source: 13 Bayer grower-cooperated replicated Soybean DSTs (2013–2017). Your results may vary according to agronomic, environmental and pest pressure variables.
host to a host of diseases.


Put your best foot forward. Protect your pulse and soybean crops from disease on the very first pass with Delaro fungicide, featuring the longest-lasting protection from the broadest disease spectrum.

Works hard from dawn to dusk. Just like you.
Delaro
plan your first pass.

Delaro combines the proven power of prothioconazole (Group 3) and trifloxystrobin (Group 11) to protect your pulse and soybean crops from the most damaging stem, leaf and pod diseases.

the Delaro advantage

- The first pass for long-lasting, broad-spectrum disease protection for pulse and soybeans including protection from: ascochyta blight, anthracnose, mycosphaerella blight and white mould
- Formulated to provide excellent spray retention and delivery of actives inside the leaves
- Multiple modes of action for preventive and post-infection activity

On average, Delaro gives you an incredible +11% increase in lentils*, +11% increase in field peas** and +5.8% increase in soybeans*** over the untreated check.

*Source: 30 Bayer grower-cooperated replicated Lentil DSTs (2015–2017)
**Source: 37 Bayer grower-cooperated replicated Field Pea DSTs (2015–2017)
IT'S GROW TIME

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2017 FUNGICIDE TRIAL RESULTS /// CANOLA

canola
pulses
cereals
it pays to spray canola
make sure your crop is as good as gold.

When you get right down to it, growing canola is about one thing. Yield. Protect your yield potential with the time-tested effectiveness of Proline fungicide. It’s as good as good gets. But don’t just take our word for it. More growers use Proline than any other canola fungicide*, and the numbers show why.

*Source: 2017 BPI Data

it’s grow time

To learn more about Bayer fungicides, visit: ItsGrowTime.ca
canola yield – competitor results

4-year canola competitive results – 25 trials

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The yield increases provided by all fungicide applications were impressive, with Proline leading the way with a +4.2 bu./ac. increase over the untreated check.

To see local results, visit: [ItPaysToSpray.ca](http://ItPaysToSpray.ca)

Your results may vary according to agronomic, environmental and pest pressure variables.

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canola yield – competitor results

2017 canola competitive results – 7 trials

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Proline led the way in 2017, providing a 3% yield increase over the untreated check.

Source: Seven Bayer grower-cooperated Canola DSTs (2017).
Your results may vary according to agronomic, environmental and pest pressure variables.
sclerotinia doesn’t care where you farm.

Regardless if you’re in a high or low risk area, increasingly tighter canola rotations, plus conditions that favour disease, are providing opportunity for sclerotinia to flourish across the West. In fact, with the right conditions, sclerotinia can travel incredible distances during spore release. And you could potentially lose a significant portion of your crop.

once you see it, you’re too late

Sclerotinia can remain dormant for up to five years in the soil. Worse yet, when the signs of disease become apparent – there’s nothing you can do to stop it.

proactively protect your profits

Get ahead of sclerotinia. Protect your canola with a fungicide application to effectively reduce its impact and protect the yield potential of your crop.
IT'S GROW TIME

28
2017 FUNGICIDE TRIAL RESULTS /// CANOLA

Proline
does **Proline** protect? you bet your yield it does.

We can say it because it’s true. Proline is the number one choice of canola growers in Canada for reliable sclerotinia protection*, offering on average, greater than +4.1 bu./ac. increase over the untreated check**.

the **Proline** advantage

· More growers use Proline fungicide on their canola than any other sclerotinia product on the market
· Easy-to-use liquid formulation for ground or aerial application
· Rainfast one hour after application
· Consistently provides sclerotinia protection for outstanding yield performance

On average, **Proline** gives you the advantage you need with an +8% yield increase in canola over the untreated check.**

*Source: 2017 BPI Data
**Source: 36 Bayer grower-cooperated Canola DSTs (2014–2017)
it’s about results.
always.

The fungicide trial results continue to prove the value of fungicide applications year after year.

And that’s a good thing. Because with all the preparation, input costs, and hard work you put into your crop, the last thing you need is to hear is that dreaded word… disease.

We hope you found this guide useful and we’ll continue to work to find effective ways to increase your yield potential and your ROI.
See for yourself.
To learn more about Bayer fungicides and the benefits they could have for your operation, visit: ItsGrowTime.ca
Save up to 17% with the Fungicide Multiplier. When you purchase at least 300 acres of fungicide from a minimum of 2 categories (cereal, pulse and/or canola), you can save an additional 2%.