

IT'S GROW TIME™

WESTERN
CANADA



2020

FUNGICIDE TRIAL RESULTS



Cereals

Canola

Pulses

Soybeans

Your
best
harvest
is yet
to come

Over 13 years of results

For more than a decade, we've conducted hundreds of replicated and balanced field-scale trials with our partner growers across the Prairies. These trials are part of the Bayer Fungicide Market Development Trial program.

We've gone to great lengths to ensure you get a good sense of what to expect from your fungicide application. Whether the season is wet or dry, your fields have heavy or low disease pressure and regardless of where you farm; you can trust the accuracy and testing from Bayer.



2020
FUNGICIDE TRIAL RESULTS



Cereals

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Soybeans



Cereals

Canola

Pulses

Soybeans

cereals

2020 FUNGICIDE TRIAL RESULTS /// CEREALS

In normal, and greater than normal levels of precipitation, it pays to spray*

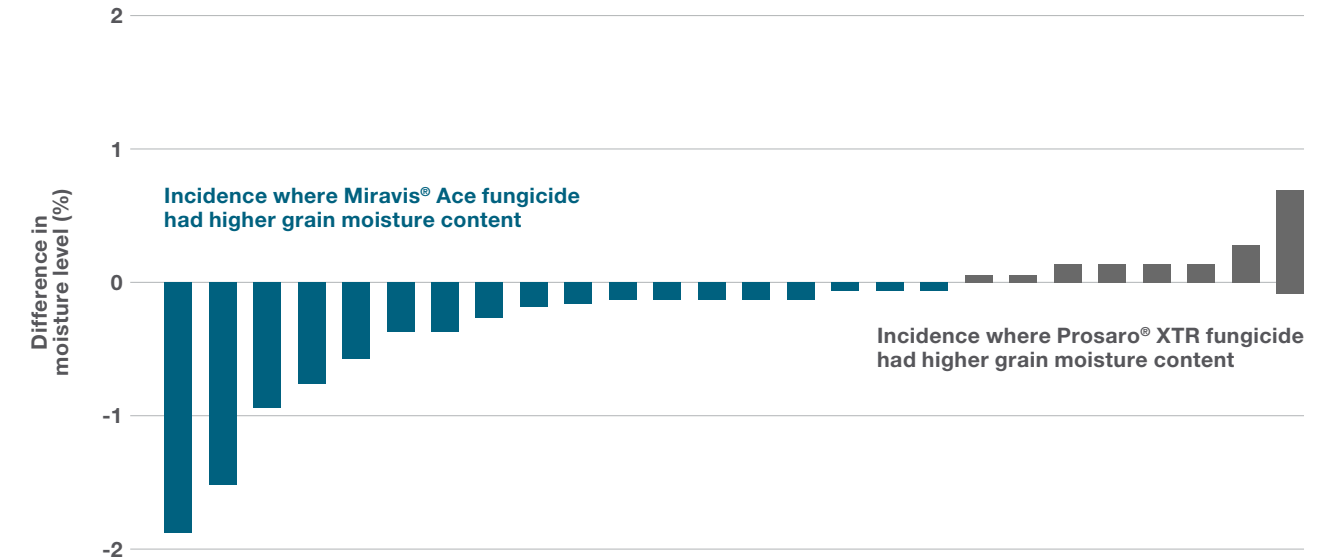
		<85% of normal precipitation	85-115% of normal precipitation	>115% of normal precipitation
Flag Leaf	DELARO®	+1.3 n=8	+6.3 n=11	+7.8 n=9
	TILMOR™	+3.7 n=2	+4 n=5	+9 n=4
Head	TILMOR	+2.5 n=2	+3.9 n=6	+7.5 n=4
	PROSARO® XTR	+3.4 n=29	+5.8 n=29	+8.1 n=12

Losing money
 Breaking even
 Making money

Increase in yield over the untreated check in bu./ac.

Source: Bayer field scale trials (2017-2020).
 Your results may vary according to agronomic, environmental and pest pressure variables.
 Note: Average moisture is determined by Agriculture and Agri-Food Canada's Drought Watch Data.
 *Calculation based on \$6/bu. wheat price, \$5/ac. application cost and 2020 SRP (does not include rebates and grower may purchase for less).

Grain moisture content at harvest

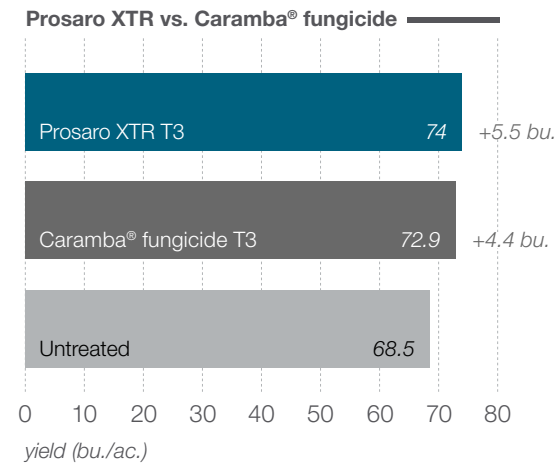


Treatments with Prosaro® XTR fungicide had drier grain 66.7% of the time compared to Miravis® Ace fungicide.

Source: 27 Bayer grower-cooperated replicated wheat trials (2020).
 Your results may vary according to agronomic, environmental and pest pressure variables.
 Note: Average moisture is determined by Agriculture and Agri-Food Canada's Drought Watch Data.

Wheat yield – head timing (T3) competitive results

4-year wheat fungicide competitive results – 56 trials in Western Canada



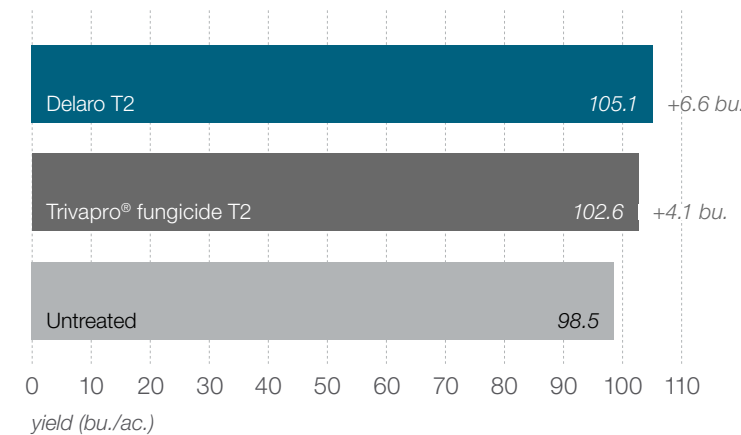
Source: 56 grower-cooperated replicated wheat trials (2017-2020).
Your results may vary according to agronomic, environmental and pest pressure variables.

When applied at head timing, Prosaro® XTR fungicide provided an average of +5.5 bu./ac. advantage over the untreated check and an average of +1.1 bu./ac. advantage over Caramba® fungicide.

To see local results, visit ItPaysToSpray.ca

Barley yield – flag leaf (T2) competitive results

3-year barley fungicide competitive results – 10 trials in Western Canada



Source: 10 grower-cooperated replicated wheat trials (2018-2020).
Your results may vary according to agronomic, environmental and pest pressure variables.

When applied at flag leaf timing, Delaro® fungicide provided an average of +6.6 bu./ac. advantage over the untreated check and an average of +2.5 bu./ac. advantage over Trivapro® fungicide.



Cereals

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Head timing is more than FHB protection

Our research showed that a fungicide application at head timing (T3) on the tested cereal crop provided a better yield and increased quality. Treatment at this stage provides protection from leaf diseases, while supplying critical head protection throughout the grain-fill period.

Better timing...better quality yield. It's that simple.

A head timing fungicide application isn't just about protecting your cereal crop against FHB – it also enhances yield potential and delivers quality benefits.

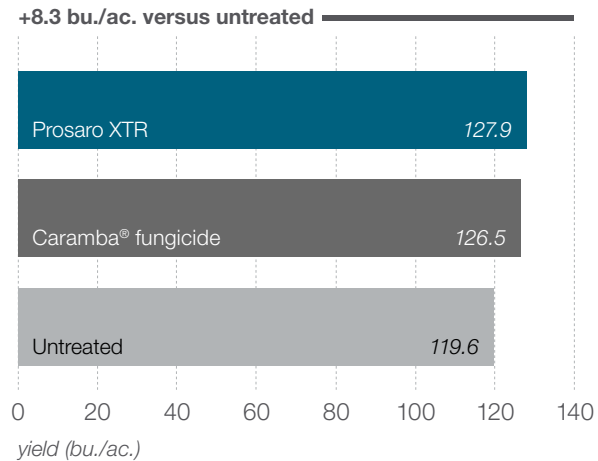
Prosaro head timing trials – wheat



Source: 11 Bayer grower-cooperated replicated wheat trials (2012–2013 and 2016). Numbers are expressed as gain in yield versus the untreated check. Your results may vary according to agronomic, environmental and pest pressure variables.

Head timing results in winter wheat

Maximizing yield with Prosaro® XTR fungicide showed an increase of +\$23.15* over untreated in winter wheat



Source: 7 Bayer internal trials – Ontario, very low disease (2018).
 *Deemed ROI assumptions
 - \$6/bu. winter wheat
 - \$5/ac. application
 - 2020 SRP (does not include rebates and grower may purchase for less)
 Your results may vary according to agronomic, environmental and pest pressure variables.

The real deal when it comes to ROI

WHEN COMPARED TO CARAMBA® FUNGICIDE

PROSARO XTR WON 77% OF THE TIME

ON AVERAGE, PROSARO XTR PROVIDED

+1.6 BU./AC. ADVANTAGE OVER CARAMBA® FUNGICIDE

THIS ADVANTAGE EQUALED

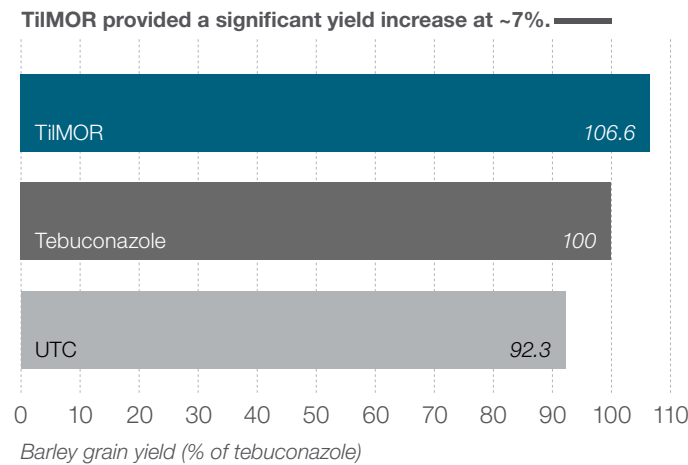
\$9.26 REVENUE FOR EACH ACRE* OVER THE COMPETITOR

Source: 18 Bayer grower-cooperated replicated wheat trials (2019).
 *Calculation for \$9.26/ac. revenue based on \$6/bu. wheat price, 2020 SRP for Prosaro XTR and Caramba® fungicide and \$5/ac. custom application cost.
 Your results may vary according to agronomic, environmental and pest pressure variables.

Introducing TiMOR – your flexible timing specialist

New TiMOR™ fungicide provides growers with the flexibility to spray from flag leaf to heading while providing control of leaf diseases, suppression against fusarium head blight and reducing DON levels. The combination of prothioconazole and tebuconazole provides both protective and curative activity resulting in comprehensive leaf disease protection, including outstanding rust control.

The flexible timing and wide window of application of TiMOR offer an advantage to barley growers in particular, where the timing of a leaf disease application and a head timing application can be as short as a few days. In conditions where TiMOR is applied for leaf diseases, growers can also follow up with an application of Prosaro® XTR fungicide for fusarium head blight protection and comprehensive foliar disease management, providing the greatest opportunity for increased yield potential.



Source: 9 medium-to-high disease internal Bayer trials in barley (2017-2019). Your results may vary according to agronomic, environmental and pest pressure variables.



Scan for more information or go to cropscience.bayer.ca/TiMOR

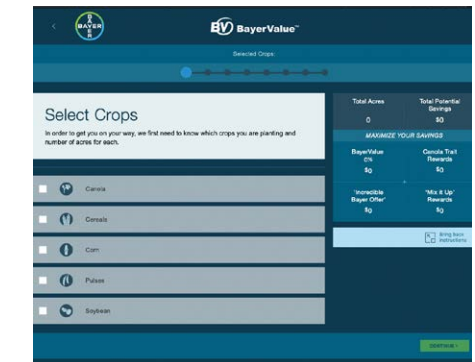


SAVINGS THAT GROW FROM SEED TO HARVEST

The BayerValue™ Rewards Program lets you maximize your savings on every acre. With a wide selection of participating crop protection products ever, it's never been easier to save.

QUICKLY CALCULATE YOUR SAVINGS

Try our new easy-to-use online calculator on GrowerPrograms.ca to get an estimate of your savings and guide you through all the qualifying products specific to your portfolio. Quickly save a PDF copy, print and email it to your retail, Bayer Sales Representative or keep it for your own records.



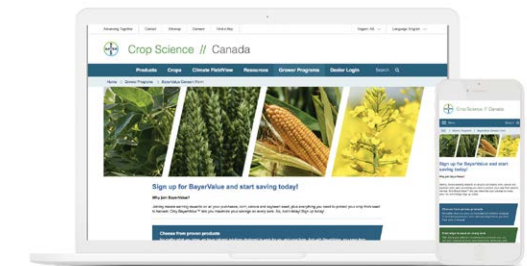
COMPLIMENTARY CLIMATE FIELDVIEW™ SUBSCRIPTION FOR BAYERVALUE GROWERS

Our groundbreaking Climate FieldView platform helps you uncover valuable insights year-round with tools that help you analyze crop performance at an operation, farm, field, and sub-field level. Climate FieldView allows you to get your data in one place, use that data to make operating decisions and optimize your inputs to help maximize yield potential and profitability on every acre. Now, growers who are enrolled in BayerValue can receive a complimentary one-year FieldView subscription. Visit ClimateFieldView.ca/BayerValue for further terms and to activate your complimentary subscription today.



NOT A BAYERVALUE MEMBER YET?

It only takes a few minutes. Sign up today and save on the crop protection products you need all season long AND receive a complimentary one-year subscription to Climate FieldView. Visit GrowerPrograms.ca or call **1 888-283-6847** to join BayerValue today. Terms and conditions apply.





Cereals

Canola

Pulses

Soybeans

canola

2020 FUNGICIDE TRIAL RESULTS /// CANOLA

Protect against sclerotinia

Increasingly tighter canola rotations and some years of disease-favourable conditions have allowed sclerotinia to thrive across Western Canada. Given the right circumstances, it can travel remarkably far during spore release – putting a significant portion of your crop at risk. When conditions for the disease are favourable and infections are initiated during early flowering, yield reduction can be significant. As a rule of thumb, every one percent infection equals a half percent yield loss or yield loss is half of the infection rate.* For example, a 40% incidence would equal approximately 20% yield loss.

The right product for your farm

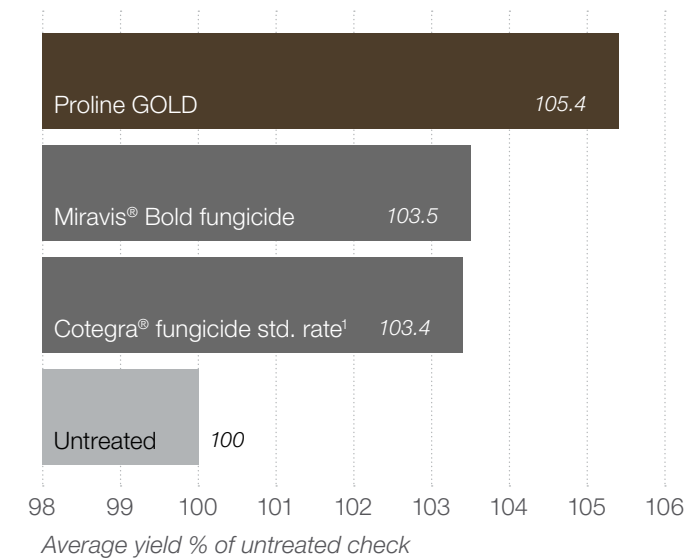
It is crucial to choose the right fungicide. Farmers now have a choice of two premier sclerotinia fungicides with the addition of Proline® GOLD fungicide. Proline GOLD offers excellent protection in high disease pressure situations. Proline GOLD has two modes of action that work in synergy to provide exceptional yield and disease protection. With two powerful actives, the trusted performance of prothioconazole combined with fluopyram, Proline GOLD provides the satisfaction of knowing your canola is protected from yield robbing sclerotinia.

Proline GOLD and Proline® are both available in 2021 and allow farmers to target sclerotinia by severity risk to ensure that each acre gets the exact protection it needs.

*Source: Canola Council of Canada.

Introducing all NEW Proline GOLD. Suffering from sclerotinia? Go for the GOLD.

Proline GOLD vs. the competition – Western Canada 2020 results



Proline GOLD outperformed the competitors with a 73% win rate over Miravis® Bold fungicide and a 67% win rate over Cotegra® fungicide in these trials.

Source: 15 Bayer Market Development Trials (2020).
Your results may vary according to agronomic, environmental and pest pressure variables.
¹Cotegra® fungicide std. rate = 40 ac./jug.



Scan for more information or go to cropscience.bayer.ca/ProlineGOLD



Cereals

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Pulses

Soybeans

Give yourself the upper hand

Sclerotinia can remain dormant for up to several years in soil, but once you see the infection in your canola, it's too late. Plan to protect your canola with Proline® GOLD or Proline fungicide this spring. It will provide the opportunity to maximize your yield. As the year progresses, confirm your plan by evaluating weather conditions and crop stands. If you're facing a higher risk for disease incidence, plan to apply Proline GOLD fungicide, with two modes of action, for improved efficacy in those higher disease pressure situations. If it's not exceedingly dry and your canola looks strong and healthy, then follow through and plan to apply Proline.

Source: 2020 BPI Report - Canola Fungicide Treatments.

The #1 selling canola fungicide used by Canadian growers*:
This is what success looks like



Our record of success speaks for itself. Proline fungicide is the number one selling fungicide for canola growers in Canada and provides reliable sclerotinia protection.* Proline delivered an average yield increase of +3.7 bu./ac. over the untreated check, proven by over six years of trials. Proline will continue to be an excellent broad acre fit to protect against sclerotinia.**

*Source: 2020 BPI Data.

**Source: 69 Bayer canola trials (2014-2019). Your results may vary according to agronomic, environmental and pest pressure variables.

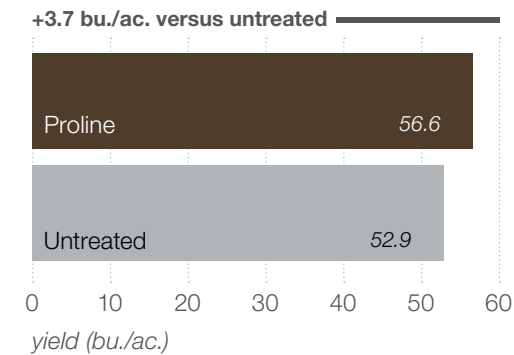
The Proline advantage

- // Proven by you – In 2020 and for 12 straight years, more growers have trusted Proline® fungicide on their canola than any other sclerotinia product on the market*
- // Consistently provides strong sclerotinia protection and continues to be an excellent broad acre fit across Western Canada

*Source: BPI Data (2010 to 2020) - Canola Fungicide Treatments.

Canola yield results

6-year canola fungicide trials summary – Western Canada



Source: 69 Bayer grower-cooperated replicated canola trials (2014–2019). Your results may vary according to agronomic, environmental and pest pressure variables.

Proline provided an average of +3.7 bu./ac. (+7.0%) over the untreated check.



Cereals

Canola

Pulses

Soybeans

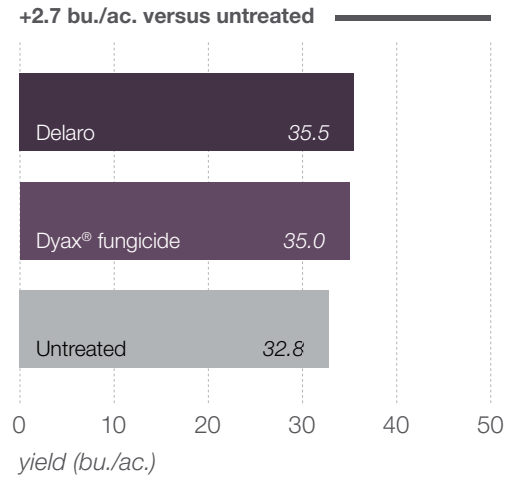
pulses

2020 FUNGICIDE TRIAL RESULTS /// PULSES

Lentil yield results

Lentil yield – competitive results

2020 lentil competitive results – 9 trials

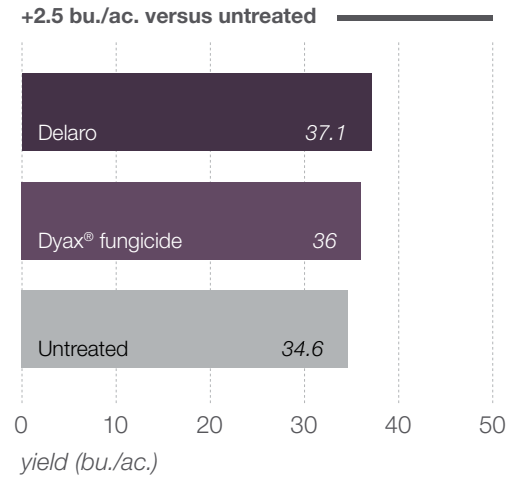


Source: 9 Bayer grower-cooperated replicated lentil trials (2020). Your results may vary according to agronomic, environmental and pest pressure variables.

Tests showed an average +2.7 bu./ac. (+8.2%) advantage for Delaro® fungicide compared to the untreated check.

To see local results, visit ItPaysToSpray.ca

3-year lentil competitive results – 24 trials



Source: 24 Bayer grower-cooperated replicated lentil trials (2018 = 7, 2019 = 8, 2020 = 9). Your results may vary according to agronomic, environmental and pest pressure variables.

Tests showed an average +2.5 bu./ac. (+7.2%) advantage for Delaro fungicide compared to the untreated check.

To see local results, visit ItPaysToSpray.ca

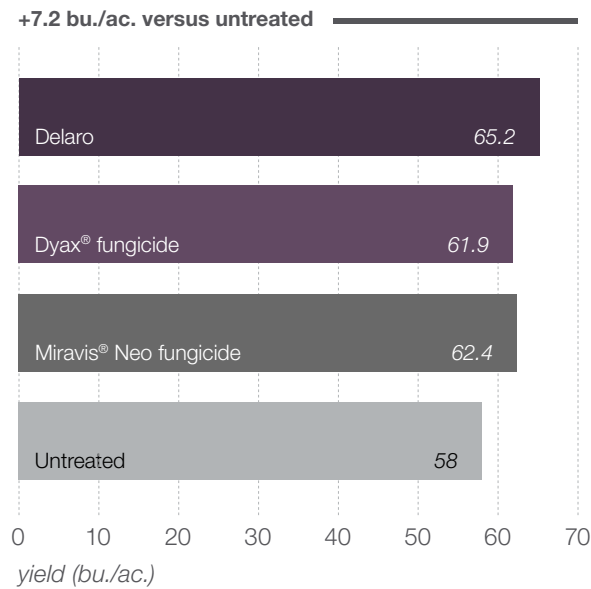
Lentils – fungicide response by environment

	UTC		Dyax® fungicide		Priaxor® fungicide		Elatus® fungicide	
	Delaro – bu./ac. advantage	Win rate (for Delaro)	Delaro – bu./ac. advantage	Win rate (for Delaro)	Delaro – bu./ac. advantage	Win rate (for Delaro)	Delaro – bu./ac. advantage	Win rate (for Delaro)
Overall	2.8	96%	1.1	83%	1.6	77%	2.1	86%
	n=54		n=24		n=39		n=28	
Below average moisture	2.3	100%	1.4	85%	1.2	80%	1.1	77%
<85% of avg annual moisture	n=27		n=13		n=20		n=14	
Average moisture	3.5	87%	0.9	80%	1.6	63%	2.8%	100%
85% to 115% of avg annual moisture	n=15		n=10		n=8		n=4	
Above average moisture	3.8	100%	N/A	N/A	2.7	100%	3.3	80%
>115% of avg annual moisture	n=11		n=0		n=11		n=12	

Source: Bayer grower-cooperated replicated lentil trials (2015–2020). Your results may vary according to agronomic, environmental and pest pressure variables. Note: Average moisture is determined by Agriculture and Agri-Food Canada's Drought Watch Data.

Field pea yield results

2020 field pea competitive results – 9 trials

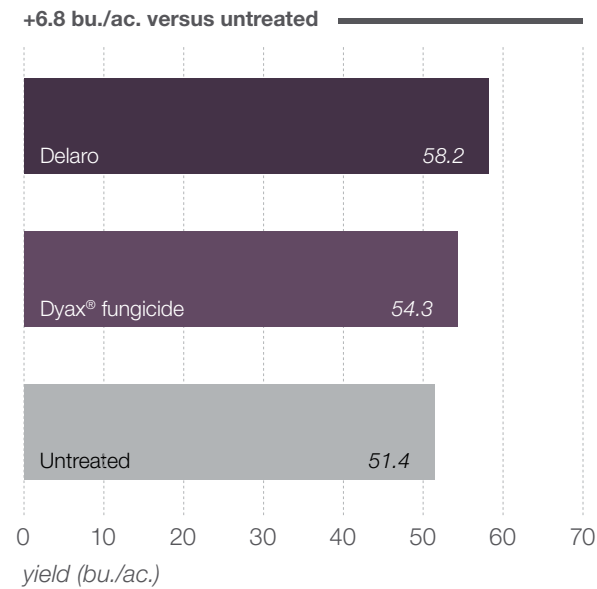


Source: 9 Bayer field pea trials (2020).
Your results may vary according to agronomic, environmental and pest pressure variables.

2020 trial data showed that Delaro[®] fungicide in field peas provided a +7.2 bu./ac. (+12.4%) yield increase over the untreated check.

To see local results, visit ItPaysToSpray.ca

3-year field pea competitive results – 25 trials



Source: 25 Bayer field pea trials (2018 = 7, 2019 = 9, 2020 = 9).
Your results may vary according to agronomic, environmental and pest pressure variables.

Three years of trial data showed that Delaro in field peas provided a +6.8 bu./ac. (+13.2%) yield increase over the untreated check.

Field peas – fungicide response by environment

	UTC		Dyax [®] fungicide		Priaxor [®] fungicide		Elatus [®] fungicide	
	Delaro – bu./ac. advantage	Win rate (for Delaro)	Delaro – bu./ac. advantage	Win rate (for Delaro)	Delaro – bu./ac. advantage	Win rate (for Delaro)	Delaro – bu./ac. advantage	Win rate (for Delaro)
Overall	6.4	100%	3.3	87.5%	3.5	76%	4.2	95%
	n=65		n=26		n=51		n=37	
Below average moisture	4.8	100%	1.3	83%	1.2	62%	3.1	92%
<85% of avg annual moisture	n=28		n=12		n=21		n=13	
Average moisture	4.9	100%	1.7	50%	3.2	71%	4.3	92%
85% to 115% of avg annual moisture	n=18		n=6		n=17		n=12	
Above average moisture	10.2	100%	7.7	100%	7.4	100%	9.6	100%
>115% of avg annual moisture	n=19		n=8		n=13		n=12	

Source: Bayer grower-cooperated replicated field pea trials (2015–2020).
Your results may vary according to agronomic, environmental and pest pressure variables.
Note: Average moisture is determined by Agriculture and Agri-Food Canada's Drought Watch Data.

Keep your pulses going

Anthrachnose, ascochyta blight, grey mould, mycosphaerella blight and white mould. These diseases are as awful as they sound, and pulse crops are no stranger to them. Plan to apply a fungicide to help keep these and other diseases at bay, so that your pulses can optimize their full yield potential.

Around-the-clock protection

Consider Delaro® fungicide to be your pulses' bodyguard. It provides long-lasting protection from a broad disease spectrum.

Don't risk it

Growing a quality pulse crop can be as profitable as it is tricky. Pulses, especially lentils, can have a real impact on your profit with even as little as a one-grade decrease. Products such as Delaro fungicide protect against the most dangerous pulse diseases and help ensure the high quality of your crop.

Plan your protection

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

On average, Delaro delivered an incredible +8.2% increase in lentils* and 12.4% increase in field peas** over the untreated checks.

*Source: 9 Bayer grower-cooperated replicated lentil trials (2020).
**Source: 9 Bayer grower-cooperated replicated field pea trials (2020).
Your results may vary according to agronomic, environmental and pest pressure variables.

The Delaro advantage

- // The best pass tested for long-lasting broad-spectrum disease protection for pulse crops, including protection from anthracnose, ascochyta blight, 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



Cereals

Canola

Pulses

Soybeans

soybeans

2020 FUNGICIDE TRIAL RESULTS /// SOYBEANS

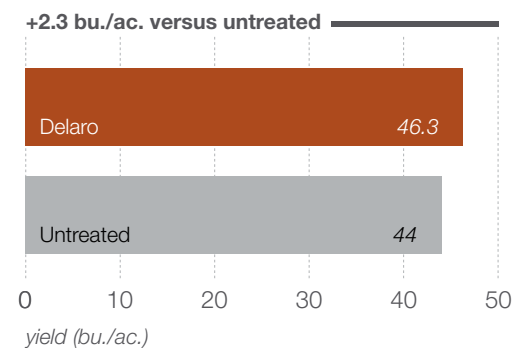
The best offence is a good defense

Are you seeing a cottony white fungus on the stems of your soybean plants? This is a common indicator of the yield-robbing disease called white mould. It is present in both Eastern and Western Canada, leaving spoiled crops in its wake. But you can fight back. An application of Delaro® fungicide at first flower (R1–R1.5) prior to canopy closure, will provide excellent disease protection and maximize your yield potential – leading to less stress for you.

If you're seeing white mould in your soybean crop, it is best to adopt an integrated management approach using crop rotation, selecting tolerant varieties, reduce planting populations and applying foliar fungicides to reduce infections.

7-year soybean fungicide trials summary – Western Canada

17 trials

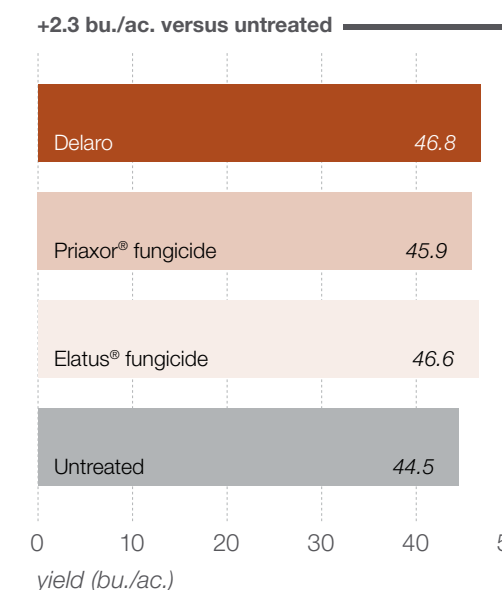


Source: 17 Bayer grower-cooperated replicated soybean trials (2013-2017, 2019, 2020). Your results may vary according to agronomic, environmental and pest pressure variables.

Delaro fungicide on soybeans provided an average of +2.3 bu./ac. (+5.2%) yield increase over the untreated check.

To see local results, visit ItPaysToSpray.ca

4-year soybean fungicide trials summary – Western Canada



Source: 11 Bayer grower-cooperated replicated soybean trials (2015-2017, 2019). Your results may vary according to agronomic, environmental and pest pressure variables.

Delaro on soybeans provided an average of +0.9 bu./ac. increase over Priaxor® fungicide.

BAYER FUNGICIDE ROI GUARANTEE PROGRAM

We're drawing a line in the dirt

We've got your back

Many brands claim their fungicide is the best, but can they, and will they back that up? That's why we're proud to offer you our Bayer Fungicide ROI Guarantee Program.

In field trial after field trial, Bayer fungicides have consistently provided boast-worthy protection, promoting quality crops and increased yield potential. It all adds up to a strong return on investment (ROI) backed by the Bayer Fungicide ROI Guarantee Program.

It's as simple as this

If an eligible Bayer fungicide has a lower ROI than an eligible competitor fungicide under the terms of the 2021 Bayer Fungicide ROI Guarantee Program, Bayer will rebate the ROI difference on up to 160 acres to eligible participants.*

Potential participants need to be signed up with the Climate FieldView™ software platform and use the software to track and see the true performance difference using data comparisons. Further terms and conditions of the Bayer Fungicide ROI Guarantee Program apply.

Ask your Bayer Territory Sales Manager, retail, or visit LineInTheDirt.ca for details.

*Participation is limited and in the discretion of Bayer.



Eligible comparison products, crops, and application timing¹

Crop	Bayer Fungicide	Competitor Fungicide	Application Timing	Eligible Provinces
Wheat (all types)	Prosaro® XTR	Miravis® Ace	Flowering, in alignment with label directions.	East and West
Wheat (all types)	Prosaro XTR	Caramba®	Flowering, in alignment with label directions.	East and West
Barley	Prosaro XTR	Caramba®	Flowering, in alignment with label directions.	West
Barley	Delaro®	Nexicor®	Flag leaf, in alignment with label directions.	West
Barley	Delaro	Trivapro®	Flag leaf, in alignment with label directions.	West
Canola	Proline®	Cotegra®	Flowering, in alignment with label directions.	West
Canola	Proline® GOLD	Cotegra®	Flowering, in alignment with label directions.	West
Canola	Proline GOLD	Miravis® Bold	Flowering, in alignment with label directions.	West
Peas (field)	Delaro	Dyax®	Early flowering, in alignment with label directions.	West
Peas (field)	Delaro	Miravis® Neo	Early flowering, in alignment with label directions.	West
Lentils (red/green)	Delaro	Dyax®	Early flowering, in alignment with label directions.	West
Lentils (red/green)	Delaro	Elatus®	Early flowering, in alignment with label directions.	West

¹Only the eligible comparison products, crops and application timing set out above and in the Bayer Fungicide ROI Guarantee Program Terms shall be used for Bayer Fungicide ROI Guarantee Program purposes, including for the in-field comparison and reconciliation. Only application rates, deemed product Suggested Retail Prices and deemed commodity prices set out in the Bayer Fungicide ROI Guarantee Program Agreement shall be used for Bayer Fungicide ROI Guarantee Program purposes, including for the in-field comparison and reconciliation.



GET THE MOST FROM YOUR APPLICATIONS THIS SEASON

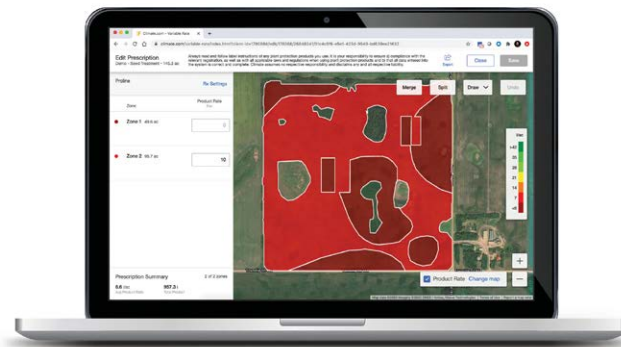
Using tools throughout the year sets up your applications for success.

PRODUCT PLACEMENT WHERE IT MATTERS

Creating prescriptions for your fungicide applications can help you make the most of the variability in your fields. Apply fungicides where they will make the most impact.

Create prescriptions in fields with a higher degree of variability using satellite imagery and historical field data.*

*Always follow label directions.



PLAN YOUR SEASON SO YOU ARE READY WHEN YOUR FIELDS ARE

Planning ahead makes for easy record keeping. Entering your applications in Climate FieldView™ before the season starts will help ensure data management doesn't slow you down when your fields are ready.



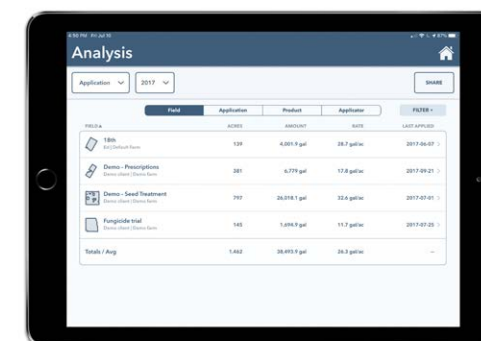
MAP EVERY PASS YOU MAKE IN YOUR FIELDS

Map your application passes when you are in the field. Capture the products and rates that have been used (left image, below), along with any other variabilities in your application, such as sprayer speed (right image, below) and checkstrips. Having your application maps instantly and easily available helps with field management decisions throughout the season and planning for next year.



USE SEASON RESULTS FOR EASY DECISION-MAKING NEXT YEAR

At the end of the year, review your as-applied maps and product rates, seasonal weather, satellite imagery and scouting notes to help evaluate your yield at a field and sub-field level.



Cereals

Canola

Pulses

Soybeans



Cereals

Canola

Pulses

Soybeans

IT'S GROW TIME™

CLIMATE
FIELDVIEW™

DELARO™

PROLINE™

PROLINE™
GOLD

PROSARO™
XTR

TILMOR™



ItsGrowTime.ca | 1 888-283-6847 | @Bayer4CropsCA | #AskBayerCrop

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